

John Willson

Phil<sup>ca</sup>  
co

Pa.

Jeff

David

DD  
David B. W. Wilson  
revenue

air 1.5

down to 12 in  
clearing

Proper

John Wilson

Jefferson

Medical

College

Oct 14th 1858

John Wilson



Unit Mechanics pages, 1, Jackson 17, 49, 81, 86,

25, 29, 61, 63, 81, 93,

Allen Propost<sup>10</sup>, 24, 27, 29, 38, 58  
65, 74, 84, 91, 94,

Allen probc, 87,

Heat. 6, 19, 24, 31, 50,  
67,

Kendall, 12, ~~24~~, 41, 78,  
96,

- 1

Engle,

Deak

Cresson,

Engle.

Benson,

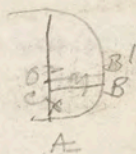
Shew,

4 angles

Bredin,  $AO = h$

W. Jones,  $AB = A$

Patterson

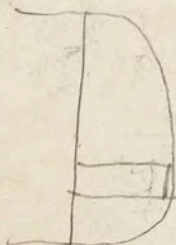


7 d

$$dx = \frac{x ds}{y}$$

$$B B' = ds$$

$$B D = dx$$



$$x', y', ds, dx$$



Jefferson College  
Medical Clinic

Oct. 16th 1858

By Jackson

1. Michael Jensen.

hepatic disease

Complained of pain on right side of ribs, much  
better than he was, tongue a little red, before  
was pretty nearly right. Treatment before was,  
Calomel  $\frac{1}{4}$  gr. 2 or 3 times a day, morning & evening,  
2 gr. Iodine powder, & 2 grs. Chalk. Leave him a  
few days without any medicine, if he continues  
to get better, if not, same treatment.

2.

Do not seek, but

is dumb in his hand, no paralytic, but  
entirely dumb, been deaf, than before (such  
symptoms ought not to be disregarded, they are a warning,  
sometimes a finger is half-dead, side of the face has no  
feeling, something wrong at the central organ) a case  
of mingled congestion & indigestion, tongue a little  
reddish & more on one side than another.

If anything is the matter with the brain, or spine on  
one side, the manifestations as a general rule  
are on the other, with few exceptions. It has a slow pulse  
irregular. Pulse can be frequent, without being quick.  
Treatment, Cathartic. <sup>5</sup> ~~Therapeutic~~ Rhubarb,  
Calomel, 2 grs of aloes, every day until it oper-  
ates, & then stop. If he has headache, apply wet  
towels, eat no meat.

3. Nanny, <sup>epigastric</sup> 33. Been sick 4 months,  
pains over the region ~~of the chest~~, coughs ~~badly~~,  
pains when she has a fever, has chills. Chills  
bring on cough, pulse regular. Tongue very  
morbid, red, shortness of breath. Probably  
a pulmonary affection, <sup>on week</sup> feet swollen, come  
Prescription cod liver oil during the  
day + 5 grs Dover's powder at night



Surgical Clinic  
by Prof. Gross

by Prof. Gross

Two cases of Chondrocarcinoma. First  
the London Article by subcutaneous opera-  
tion. Operation over, apply an adhesive plaster.  
Keep on light diet for a few days, and keep  
quiet, and then let her walk about. Intro-  
duce about  $\frac{1}{2}$  to  $\frac{3}{4}$  inch above the junction  
with the calcaneum. Separate by a gentle  
sawing motion. A flap is left large  
enough to admit 2 fingers.

2. Club foot, called Talus, shortening of the  
tarsals, usually same as other one, in both feet  
Apply club foot apparatus; ~~show the trac~~  
table in one <sup>of most feet</sup> ~~show the~~ <sup>most</sup> ~~show the~~  
Apply the Apparatus. Introduce the <sup>most</sup> ~~show the~~  
number of the superior <sup>of the</sup> ~~show the~~  
cylind.

21

Tennison Upper Had A Myan

movable, spin a little more and then other skin, no pain

5. A man with 2 fingers (Polydactyl) one  
in each socket. They are not connected.  
They are only in the sockets. They are likely  
after having once been examined. An attempt  
and generally do. Operation is to introduce  
a pair of long sharp & delicate forceps, catch  
hold, twist the tumor off instead of pull-  
ing it out, as that would be likely to bring  
the bone out. Be careful to twist it out.



Tuesday Oct. 18.

## Gickson's Lecture

In teaching practice of medicine we teach to discern.  
When the patient before his art is perfectly well, according  
to the age, it is called the absence of disease. Disease is  
according to Huxley, a change of an individual, a  
change from his normal state, a change towards  
the worse. When the change is not progressed  
the natural history of disease is not yet begun. The  
history of diseases is a special pathology. I shall  
classify the subjects before you, let us discern, and  
indistinguishable from diagnosis. Take notice of the  
fact that the disease is not yet begun, it is not  
as Asthma affects the respiratory organs, although  
it has an effect on the functions of the body.  
2nd. Distinguishing disease. In order to do this  
the physician must know the cause of it.  
1st to present, inquire into the cause of  
Causation. Distinguishing disease, and  
diseases, under certain circumstances, may  
be the cause. Although in themselves  
unimportant

There are special causes of diseases in some regions, which are bounded by certain geographical boundaries, such as the febrile paludism in Poland. Over many parts of the world we have malarial, of which the cause is <sup>known</sup> ~~unknown~~.

These are called epidemics. Then there are epidemics. diseases that got known. The most remarkable of these is influenza, an invasion of this will increase the mortality of a place in a year very much. We may trace the users of this disease when we know about it, when we know the cause we can contract. Then there is yellow fever, cholera. Thus we speak of hygiene. 4th last, the cure of these diseases. There



Lecture

Monday Oct. 18. 1858 By Lines

Left Book Binds Modern Surgery

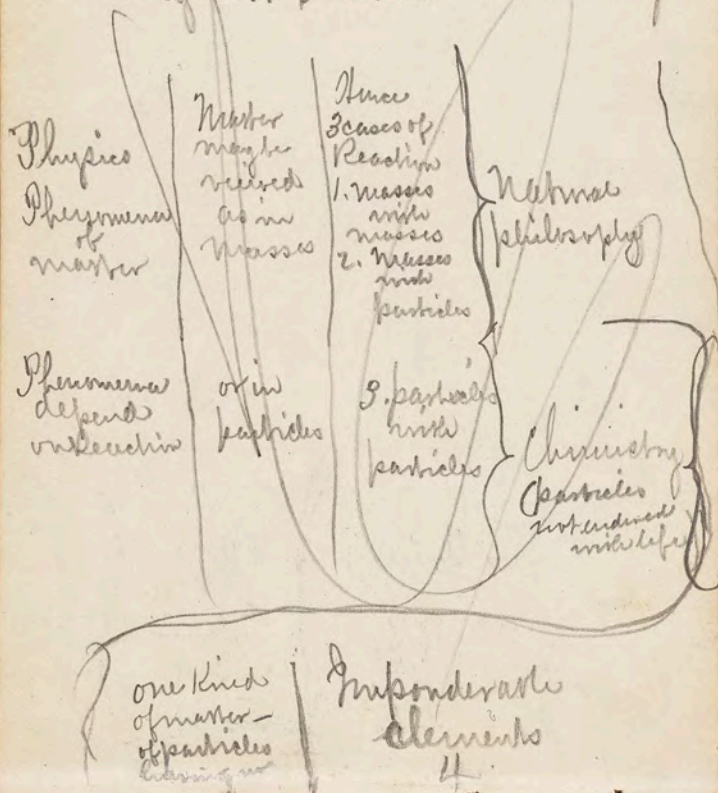
*Cerniceleus albiflaccus* (Glenz)

Paul Furgerson

Inflammation, Nearly all the diseases that occur in the world are the effects of inflammation. The little pimple on the countenance has as much inflammation as is considered healthy when it is reparative. Inflammation is likely to occur in all parts of the body except the epidermis, nails & hair. It is owing to the fact that that has in the functions of the body. Those like hair epidermis & are <sup>the hair, skin, & nails</sup> preserved about the part where it takes place. It has various forms, acute, healthy, & unhealthy chronic, & latent.

acute when it runs rapidly through its  
 stages of existence. Chronic is when there  
 is very little manifestation in its  
 coming on or progress.

# Lecture by Monday Oct 18. 58 Rache Chemistry



weights

Another  
kind of  
particles.  
having  
weights

Ponderable  
Elements  
65



Physics  
phenomena  
of  
matter

Matter  
may be  
viewed  
as in  
waves

3 c.  
Re  
in  
n  
2. n  
wt  
po

Phenomena  
dependent  
Reaction

or in  
particles

3 Pa  
n  
po

Physics is the science which investigates the phenomena  
the former that manner has over matter is called  
Reaction, mutual action. When we view  
matter, it is sometimes viewed as particles held  
together and composing masses. At other  
times we view the minute parts, called  
particles. On this ground there have been  
3 cases of Reaction, 1. Reaction of masses  
with masses, <sup>2</sup> masses with particles, 3,  
particles with particles. The 1st 2 cases of  
reaction belong to natural philosophy  
while the reaction of particles with parti-  
cles relate to chemistry. The particles  
with which chemists have to deal are  
those without life, those belonging to <sup>the physical</sup> philosophy.  
Chemistry is that science which  
investigates the reaction arising  
out of particles with particles, leaving  
out the living particles.

The familiar example is the billiard ball  
striking another one. One's image in a  
looking glass is reaction of masses with  
particles. Dissolving sugar in tea is a  
reaction of particles with particles. In  
a mathematical sense matter is divisible  
without a limit, but according to  
my opinion, particles are indivisible in  
a chemical sense. The more essential prop-  
ties are opacity, ~~transparency~~, colour,  
which are all relative to the impervious  
called light. There are also porosity,  
which implies the compressibility, out  
of this, comes, expansibility, which  
brings in, elasticity. The ways in  
which matter is united in the material  
world by attraction, & then there is an  
action which tends to burst them  
apart which is called repulsion.



Chemistry. Works of the action  
drawn forth by the attractive & repulsive

Particles may further be divided into  
4 inponderables, light, heat, magnetism

inponderables are not easily subdivided,  
ponderables are divided into 13 non  
metallic, 52 metallic, non-metallic  
compounds, 3 gases, 3 — 4. 3, solids  
wood, silicon, iron.

If there are 2 kinds of particles, come  
together at the 2 kinds of reaction included  
at the same time. It is also good to know  
so. We must believe that the attraction <sup>as frequently</sup> & repulsion <sup>is</sup> is inponderable

That Chemistry is the science which  
investigate the <sup>properties</sup> which arise out of the  
attraction of ponderables & repulsion of  
inponderables

Lecture by  
Monday, Oct. 18. 1858 Paracraft  
Anatomy

Animal Matter	32.17
Plus of Dinner	51.54
Cash. . . .	11.30

$1/3$  is <sup>original</sup> ~~copy~~  $2/3$  is copying matter. this is  
the general composition, and about all  
that is necessary to recollect.

Lecture by  
Oct. 18. 1858 Prof. Meigs

## Lecture

Monday Oct. 18. 1888.

by Prof Meigs

The os sacrum called so because the ancients used to think that an immortal bone was placed there called Os Luz, which they thought was indestructible. It ought to be 4 inches long, 4 inches wide. If you draw a triangle equilateral 4 inches each way, you can draw an os sacrum in it. If it 5 inches long it is too long, if 3 inches it is too short, and difficulties arise in each case. There are 2 basins in the pelvis, the superior & inferior. The front of the pelvis is made of muscles, which make a soft place for the child to lie against when the woman walks. The length is 5", the sacrum 4 the coccyx  $1\frac{1}{2}$  which makes  $5\frac{1}{2}$  in all.





Causes are divided into 2 important parts,  
predisposing & specific or incidental. Incidental  
depend on predisposing cause. Specific are both  
predisposing & exciting. Predisposing causes are  
passive. A Predisposing principle Prod. cause. Sleep  
is a good example. Malnutrition very seldom occurs  
during sleep. There are many diseases which concern  
sleep. In this case sleep is a prod. ~~stage~~. Hereditary  
predisposition is a passive cause. Less of  
diseases. They may be in solid or <sup>in both</sup> fluids. Take a  
perfectly healthy person & subject him to changes.  
They would first be Diarrhoea, but no human  
body could be found in a state of perfect health  
so that is not right theoretically, as though right  
theoretically.

Lecture

Oct. 19, 1858

by Gross

# Lecture

Oct. 19, 1888

Gross Surgery

Inflammation <sup>or unhealthy</sup> healthy with reference to the local or constitutional, healthy, when it tends to the reparation of the part affected, otherwise unhealthy. In an incision when the constitution is healthy, we bring the parts nicely together, & the parts will be filled in between by a plastic matter, which will run by means of inflammation, but if unhealthy the parts will never heal, but the inflammation is too severe. It is either common or specific. Every person is subject to the former, but there is a certain sort which certain individuals are subject to, which is called specific. There is a peculiar poison called Syphilis, from which a specific inflammation takes place. When we apply this by inoculation it spreads over the whole body differing from common inflammation. Dissection poisons <sup>ing</sup> is another

class of specific inflammation. Also when the



class of specific inflammation. Also when there  
man that flays a dead animal. It is not always  
visible, but latent. Many of the nervous diseases have  
their origin in this form, which is sometimes  
inflammation of the lungs, which is un-  
attended with pain & difficulty in breathing.  
Local phenomena which are most important  
Redness or discoloration of the part. Varies in its  
degree & its character. In degree from the  
Redness to the most intense fiery color. In  
the character of that degree. The symptoms  
in that part, are, swelling, heat, & intense discoloration.  
The discoloration varies in character. If, like violent  
pain, it is attended in the suppurative, effusive  
color. Redness is not always present, only  
when there is the presence of much blood. <sup>There</sup> In  
Abscesses, Erysipelas, even when the inflammation is very  
intense there is no redness. Discoloration is an  
involuntary inflow of the vessels into the  
vessels of the aff. parts.

Fumefaction. Inflamm. can scarcely exist.

without this phenomenon. it is not  
produced by the effusion of some  
foreign fluids, Serum, fibrine  
magma, blood, &c.

Heat This is present in a great degree  
in all inflammations in the lungs, spleen, &c.  
The heat of the foot does not transcend the  
bounds of the heat.

Discharge of

Oct. 19. 1858 by Teacher Chemistry

1st. Repulsion. and Imponderables 2nd.

Attraction 4th. Roundness, the particles  
of which are acted upon by attraction

Repulsion. 2 particles of heat 2 particles of  
light repel, but, probably, 1 particle of light  
of particle of heat or light attract. This

Imponderables, light, heat, electricity &

Magnetics. leave the 1st out.

Then come by heat. 1st. I shall speak  
of <sup>what</sup> ~~what~~ <sup>puts it into</sup> motion. 2. Ways of measuring  
of the heat of combination. 3. In what

in which the heat enters into the

proportion the heat <sup>intensity</sup> in <sup>different</sup> bodies. 4. Changes in <sup>temperature</sup> bodies by the caloric. 5. Different instruments by which we feel its intensity.

What puts it into motion is any cause <sup>of the ponderable</sup> whether it changes the capacity for heat, or caloric. It is the dose taken which is the proportion which each ponderable takes. Ponderable matters of different sort have different attraction for heat.

Portion of Caloric, dependent on decrease of capacity. Arranged under 2 heads.

1. Condensation. 2. Elimination.

Take a piston, insert a piece of tin & insert into a tube with air, and by rapid condensation, you drive the caloric out, and set the tin on fire.

Just as you increase the capacity of ponderable. 1. Dilution, the opposite of condensation.



[illegible]

Fructus

U W D

U U. U. D. S. S.

W W W W

W W W

W W

W W W

S S S S

S S S S S

U U U U

U U

Coliments

S

S S S

S S

S S S S S







my 25 in 3 lines ...  
of iron is too large, but 1/2.

Man ... 20 years ...

... 20 ...

... 20 ...

... 20 ...

... 20 ...

... 20 ...

... 20 ...

... 20 ...

David Burk Willson

Mum, Benny      67 years of age,  
been sick 18 months. itching over face  
body, skin; rough thickening of skin  
cellar spots on his neck <sup>in the intertriginous</sup> <sup>stages of</sup>  
<sup>indicated by subcutaneous of the cellular tissue</sup>  
dysentery. But recently, given solution  
in archcases 5 drops 3 times a day of  
Fowler's solution

~~John~~ 18 mos old, Harkinson  
<sup>James Keenan</sup>  
inflammation of brain, his head now hot,  
stiffness, had convulsion 5 months  
old, now sick 2 weeks after bowels  
loose, 12 passages day, <sup>a regularity of bowels</sup> sometimes green,  
still nurses, cutting 4 double teeth  
tongue not much altered. head portion  
only hot, although the whole skin is  
slightly red & eyes hot. In this case  
tongue does not show anything.  
Weak solution of alkali & opium  
potash with water, <sup>low in force</sup> <sup>paragone</sup>

1. Head painful every 3 hours.





# Surgical Clinic

Oct. 20. 1888

Cross

1. Woman 50 years of age, married,  
family, "Mammary gland tumor"  
left, gland, had it 2 years, involves  
lymphatic glands, barometer, arched  
discharge (one so, always suspended)  
owing to the tumor rather lying  
back the ducts of the nipple, surface  
tubercle, remarkably hard, as a hard  
cancer. Discharge pain, shooting  
during attacks this kind of tumor,  
surgery can be done for a curative  
tiss. It would return sooner or  
later as the system is full of the cancerous  
material. Can only regulate the  
diet, or apply some palliative  
poultice.

2. Case of Lithotomy.

Neurobates Chalcididae

Class 1. Hemiptera

Division 1st. Reducantia

Division 2nd. Culexidae

Order 1. Odonata

Order 2. Culexidae

1. Order

2. Order

3. Order

4. Order

5. Order

6. Order

Class 2. Neurobates

Division 1st. Neurobates

Order 1. Neurobates

2. " " Species

Division 2nd. Neurobates

Division 2nd. Neurobates

Order 1. Neurobates

2. Order

Division 3rd. Neurobates

Order 1. Neurobates

2

Class 3rd

Division 1st. Neurobates

Order 1. Neurobates

2. Order

3. Order

4. Order

5. Order

6. Order

7. Order

8. Order

9. Order

10. Order

11. Order

12. Order

Class 4th. Neurobates

Division 1st. Neurobates

Order 1. Neurobates

2. Order

3. Order

4. Order

5. Order

6. Order

7. Order

8. Order

9. Order

10. Order

11. Order

12. Order

Thursday Oct. 21. / 858

Sick

10 A.M. Principles of medicine  
Morbid affections of the circulatory  
Disease, abstract, little known, <sup>or</sup> common,  
circumstances, & on the state of in  
differ for physiological classification.  
There is scarcely a case, that the circulatory  
function is not affected by sympathy.

Understanding this symptomatology, you  
know a great deal. All diseases symptomatic  
with the circulatory system are  
one most important. Circulation <sup>of blood</sup>  
<sup>pulse</sup> indicates the action of the heart, done  
by the small organs. If these do not  
do their duty, you have congestions,  
In Cholera, such is the case.  
There comes the impairment of the



3. Normal activity of the heart is necessary  
to the normal activity of the heart

1. By arteries, 2. by capillary organs, 3.  
By small organs. Hard pulse, heart less in  
full force, Artery, full force, 3. something in  
it to contract. 1. frequency, force rhythm of the  
pulse. Average pulse, men, 70 to 73.

women, 73 to 96. Women more frequent, more  
hard, W. soft. In heart, pulse varies from  
50 to 100. Frequency must not be  
confounded with quickness. There are

2. others. Nervous system affects the pulse  
2. The quantity of the circulating fluid.  
Rhythm, the intermittent pulse, is of great  
importance. Sometimes occurs when the  
child goes to sleep. Most striking.  
Occurs in hyperthorax, its influence  
to be drawn from it, I think.

Local hyperaemia is a very common  
congestive affection, is entirely connected  
with heart. It is caused in many cases by  
obstruction of the blood vessels. It is also caused by a  
decrease in volume.

Goose  
11 AM. Singing

Trq about 100 p.m., <sup>spand</sup> lower  
than the heart, about during per-  
ition 106.7. Birds very hot

feins considered, apparently of Local

Influenza. It comes in degrees with  
as in character. In degree from  
the slightest touch to the most

intense. It is character in the early

sharp & increasing in the lungs

and shift. In the, which is

in various weather, becoming

in bone, due to <sup>in the early stage</sup> increasing

in the, about stopping, become shifting.

It is character in the evening than

in the morning

was at night. It is, because

it has come from the early stage

at the time in the early stage

Independent of the subjects, however, pain  
is a symptom of inflammation. In inflammation, pain  
increases in proportion to the <sup>amount</sup> involved.  
In spasm, comes on suddenly as violent  
at beginning & end. In inflamed tissues  
increases pain. In spasm, the reverse  
pain is formed in proportion to its  
violence & continues. A sudden  
cess. of <sup>usually</sup> p. is not of sufficient  
value as an indication  
of what is going on. Pain is produced by a  
pressure of the increased capillary  
results. Pain is a certain change in  
the ~~mental~~ sensation dep. on the Circum.  
In all inflammation, there is a certain  
disorder in the functions of that part.  
There is an increase of the sensibility  
in inflammation of a part, such as in the  
eye & ear.



## Esseus

Placed as we are in the world,  
surrounded by many things on all  
sides to entice us we are powerfully  
tempted to do wrong. When from  
Eden's grounds man was sent  
upon the world he was given up to the  
tempter, his former nature destroyed  
entirely changed leaving as we  
see now marks upon him that  
serve as some ancient monuments  
erected in the past to show the ob-  
server ~~that the past was~~  
~~more than the present and that~~  
~~he sees but the mouldered~~  
~~remains of what it was formerly~~  
great & grand. On the survey  
of the human mind amid the  
distracting passions that rule  
him and the appetites that  
urge him on there yet appear

traces of what he has once been.  
Had he been left by an angry  
Judge when he left himself no  
controlling power had ruled him  
But he would have moved on blindly  
to his ruin. Yet in him we  
discern principles that  
fading from this power now  
would have been mighty in  
directing him. Among these  
is the desire of esteem. A  
natural propensity of man  
its origin is outside of man  
he does not put it in place  
it in himself yet it is in  
his own power to thwart its  
power & render its power in-  
effectual. Look at the child  
how it pines away if neglected  
It is not the mere absence  
of care for its body but the  
neglect affects it because it  
longs to be cared for and feels  
all its own claims. As



esteem and regard. As it  
passes in years it leaves that  
other <sup>regard</sup> ~~are~~ to be said for and  
that it must sometimes  
yield. But the power of the  
principles not destroyed for  
all this. Blot out from man the  
desire of the esteem of his fel-  
low man and you obliterate  
one of the strongest principle  
bonds of society. In how  
many ways in life even  
during a day do we say how  
anxious men are not to the  
lose the esteem of those with  
whom they associate. Let  
their money go let it fly to  
the winds of heaven and let  
a man occupy the same  
place in the esteem of his  
neighbor how is his arm  
strengthened and how he  
feels that if you give him



that he can bear any suf-  
fering on his own account so  
that his name is unstained  
before men. Let Why does the  
skulking thief choose the  
hours of the night does it  
seem as if the eyes of none  
were upon him and no one  
would detect the guilt? <sup>not</sup>  
Bring him forth in daylight  
let the eyes of man fall  
upon him in and if he do  
not manifest his confusion  
we all feel that he has lost  
one of the principles that  
could have any effect in bring-  
ing in back to his position  
in society and we hesitate  
not to say that he is a hard  
man. How uneasy the thought  
that we are deceived makes  
us feel. We shudder at the  
idea and feel that however  
humble the ~~the~~ humble in position  
the above is who has caused a

gainst us we would wish to have his good-esteem, even if though his favor does not affect us in any way. When one dies who has spent his life in doing wrong how anxious he is to clear his name from all accusations on it. Much as he dreads the thought of accounting to that high Judge for his conduct yet he also feels as if he would must not leave the earth and have his name mentioned only to be reviled and his memory to be execrated. Thus we see the miser at death vainly endeavoring to propitiate the feelings of the world by bequests of money at his death when even if he wished he could not the control of it any longer.

But we <sup>thats</sup> ~~having~~ to take another  
view of this principle of es-  
teem let us begin of making  
man's esteem the rule of  
our conduct in all things.

Gen<sup>l</sup> has made the influence



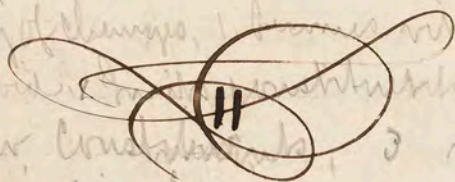
Great as may be the influence  
of ~~that it should have~~ the good  
esteem of men on all our ac-  
tions yet we must always  
remember that it is not to  
them that we are responsible  
for our actions that however  
just our actions may appear  
in the sight of men yet there  
is another and a far different  
judgment to be passed on  
our deeds than that of men.  
Each man is liable to be called  
to account but for his own actions  
and should not let the doings of  
others lead him into error.  
Look over the history of the  
great men that have ap-  
peared on earth. Did they  
they all follow their fellow  
men and waited for their  
decisions approval of their  
courses then they had never  
occupied the positions they  
do. That Luther waited patiently  
for his course to be sanctioned  
by the powers he acknowledged



his name could as a Reformer  
could not have been heard. He  
burst forth from the shackles  
that bound him and seeking  
other the approval from on  
high sharpened on his mission.  
Then behold a Galileo looking  
forth on the sky revealing from  
nature's <sup>360</sup> ~~blows~~ <sup>blows</sup> that facts that  
the ~~teleg~~ <sup>teleg</sup> blindness of the  
times ~~refused~~ <sup>refused</sup> to see. Other  
examples. ~~Least of all~~ in  
religions should ~~one~~ <sup>man</sup> wait for  
man. these These are ex-  
ceptions in ~~our~~ <sup>our</sup> ~~annals~~  
the annals of time. These  
broke the regular bond of  
Loc. because they were sent  
to break them. but with  
them generally the desire of  
esteem is always and will  
be a controlling principle  
and even in those who have  
thus passed the general

limits we see the same desire  
of esteem prompting them to  
weigh well the matter and be-  
coming satisfied in their minds  
of the truth of what they uttered  
they cared not for the present  
but looked with confidence  
with the future - As man  
becomes more & more better  
and better his <sup>saying</sup> ~~voice~~ will  
be true but until he has  
reached a higher grade  
than he is at present on  
he can never think that

Vox Populi vox Dei est,



But these do not constitute the disease  
itself. Buffy blood, is blood drawn from  
inflam. parts. B. coat, consists of Fibrin  
dissolved in albumen. Red globules give  
this cohesiveness have a stronger affinity  
and fall together and form columns or  
roulets. Is usually found with inflammation,  
but does not constitute it. Find some  
increase in the albuminous serum.  
Morbid by add. of new contents. This  
is very common. It is found some-  
times as good as rushing into the  
stomach.

Non Elimination. Nutritive  
matters if not taken from blood  
beams, it poisons just as much.  
Morbid matters added to the  
blood by non elimination  
actually vitiate. We thus  
suppose that malarial matter



the blood by reasoning  
Production. pus is in the blood  
by his power. Piamia. Small pox  
is thought that it is in blood. In  
Scarlathina sometimes the blood is  
used for inoculation. Lues the  
nia. Observe the following rules.

1. That all diseases imply vibration  
of the blood. 2. That these vibrations  
rarely constitute the disease

Mechanical conditions of Circulation  
connected to all fevers very much  
Hyperaemia is the most universal  
accident of disease. What is it  
where does it tend? The spleen  
has been thought to be enlarged

its function particularly local  
Hyper. is sometimes is stopped in  
a short time by some suppose Lues  
phos, sulphuric ether by treating  
the spleen with the effort

This is called Congestion. It may become inflamed by the addition of hot blood, or reaction. It is always coincident with inflame.

of Symplocarhinus is totally a nervous  
the perversion of the action, though the blood  
irritation is totally a nervous.

in person, 1st. irritation 2nd, blank, 3rd  
inflamm. Around point of suppuration  
there is a surface circulation & still further  
down. Blood goes with more force  
& goes in greater quantity in a vein  
going from inflamed part. than to  
a whole part. In Cholera there is

Congestion small organs do not  
do their duty. 2. It is the <sup>cause</sup> ~~cause~~ <sup>consequence</sup>  
of the <sup>organs</sup> 2. Inflammation 3. ~~It is the~~ <sup>plumage</sup> ~~cause~~  
or effusion of the parts

Is 1822

Fr. 11. Am

Lingering

lymphatic fever, or lymphatic  
inflamm. When inflammation is in an  
active & great organ, this fever is always  
then. Always before this a depression  
occurs. He is chilly, cannot exercise  
his faculties, vomiting, dryness in mouth  
& throat, impaired appetite, skin like  
glass. After these have lasted a day or  
so or a little while we have the fever.  
The countenance is flushed, there is  
the respiration frequent, he is  
remarkable sensible, tongue coated,  
thirst, no appetite, bowels constipated and  
urinary secretion is wanting, high  
colored, sometimes uric, are the  
symptoms of this fever. Sleepless,  
furning all over. are also symptoms.



Afternoon

Man has been created mortal.  
Liable at any time to be called  
away from his place on earth. One  
generation passes away and  
another succeeds ~~but~~ <sup>and</sup> although  
it is so we cannot see the change  
yet each day we hear of a death  
and silently but effectually the  
hand of the destroyer moves on  
carrying off his victims to their  
graves the slow making way  
for others to rise and spend the  
noon tide of their days but  
only to be summoned hence as  
others were before them. Thus it  
is with all the renowned or the  
unknown. Many of the great of this  
world have waited for succeeding  
ages to celebrate their praises.  
The busyness of life takes  
no notice of them to render  
them special objects of  
honor. Hence in this combination  
with its ~~freedom~~ <sup>not for democracy</sup> for everybody  
in present and respect for  
no man could person we  
with its principles of respect to none in  
the grave we ~~are~~ <sup>are</sup> carried even to the household  
of the poor a man to the

with its finer qualities of respect to none in  
the grave we carried even to the household  
find no honors given to the  
great at all to be compared  
to the great destructions of  
the old world small as they  
are. A Prescott passes from  
among us and as the although  
~~his death~~ appreciated has  
death produces no commotion.  
His departure is noted but  
no special eulogium is passed.  
But how do view another sight  
on the Continent of the old world  
a man old in years and bowed  
with age has departed. Who  
attends his remains to the  
tomb? The nobility of the land  
each glad to testify to his  
merits and the renown he has  
shed upon the land of country,  
How different here. True we  
have no nobility here yet some  
marks of respect should be shown  
to those who have struggled and  
labored with their minds. Let  
no one say we are not bound  
to render the departed men  
of letters praise as a nation.  
Let a politician die or as they  
are called immediately after



their deaths no matter what  
they were before statesmen  
and therefore justly our de-  
country mourners. Over what one  
He who has raised the nation  
it may be onwardly (although  
some political claims fail  
in their this or at least seem  
to be resigning to do the opposite)  
and therefore justly to be  
praised but yet the man  
who has silently worked upon  
and moulded the nation  
moving thinking minds  
is left to be honored in  
after time.

Well might she honor him  
for he seemed <sup>more</sup> like a re-  
nant of the past a connect-  
ing link between this Century &  
the past than one who has  
lived on until more than a  
half of the present Century  
has elapsed. Although

no pageantry accompanied



no pageantry accompanies  
here the remains of those who  
have labored in the domain  
of the mind. yet their mem-  
ory is cherished so that on  
this Continent Humboldt's  
name is as well known as it  
is in Europe and his death gave  
rise to eulogiums upon his  
character as a man and as a  
scientific man that honor  
him as much as all the pomp  
that was assembled around  
his Corpse at Berlin. So  
with the memory of Prescott.  
He holds the silent tribute  
of the mind of the Country and  
although his death made no  
outward Commotion  
was lamented all. When  
we think of the decrease of  
the great by the principle  
of Contrast our mind

immediately returns to  
the ~~unnumbered~~ thousands  
whose departure is not no-  
ticed. How many a sol-  
dier has died on the battle  
field waving in the ranks  
of the army of some Conqueror  
who regarded men but as  
the tools of his hands.  
They fell leaving their  
names to be mentioned  
but on the day of Judgment.  
How pleasant it is to know  
from this and feel that  
after we are gone we shall  
still be remembered by some  
of those we leave behind  
~~us~~ and how earnest should  
we be to leave behind a  
spotless name that it  
may never be mentioned

to be reproached & Fall



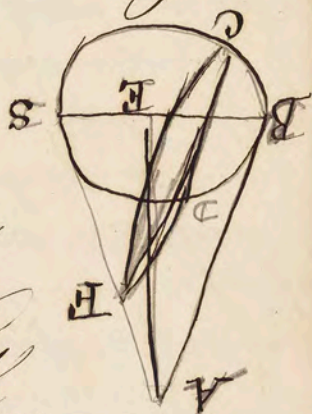
to be reproached. Fully  
convinced as we are that  
no human voice shall  
ever penetrate and disturb  
the silence of our tombs the  
thought would be exceedingly  
distressing to us, if we  
anticipated that our names  
would be Calumniated -  
give 3 Murex of ... 3 grs. of  
Sore's powder

Longual Annular  
1 Bm. and B. ...  
+ cases of ... one a boy  
14 spine green ...  
back. sinuses in ... outside  
of right back. ... 3 years.  
Bm.



Handwritten cursive script, likely a practice page or a page of text. The script is highly stylized and fluid, characteristic of 18th or 19th-century cursive. The page contains approximately 15 lines of text, with some lines starting with large, ornate initial letters. The ink is dark, and the paper shows signs of age and wear.

*Alcyonium pectinatum*  
from Queen's Hospital  
Page 99. Oct. 11



May 11<sup>th</sup> 1864  
 Adm Genl  
 West Co. Co.  
 One  
 One  
 One  
 One

Done Done Done

27 28 29 30 31

One to One One  
One to One One

2

Young Lady, 17 years, tumor in  
the neck. Left side connected with  
lymphatic glands, under the

Operated on Wednesday  
Processes probably extend into the  
large nerves of neck.

Chief tumor on forehead, which  
was treated by subcutaneous operations  
included <sup>all</sup> parietal tumor, followed by  
suppuration & the ligature discharges.  
Enclose the other half at this time  
Called "Mother's Wound". The young  
from a pin's head to as large as a grape.  
The head consists of the capillary  
vein foreruns, which are closely  
connected by cellular matter, which  
may be reached near. Find the  
arteries & veins by the former operation  
Introduce at one side around the  
half, and reintroduce at other



side, and bind firmly.

Child, Tumor occupying upper  
lid, tedious, removed by means  
of incision & pyroelectric

Child, with Club Foot called  
Chair. Foot at nearly right angles  
here before on last Wed. week.

Contraction of the tendo Achilles  
Anterior & Posterior Tibial muscles  
beside the tendo Achilles & apply  
Apparatus to the foot. Did not on  
the other last time. Introduced  
instrument flatwise, then obliquely  
went in front of T.A. & cross it in the  
position & then saw quickly & divide  
the T.A. put some plaster across  
& apply Apparatus

Young Girl, 15 years old,  
 suffered 3 years, disease  
 of the Tibia. Operation of the  
 scooping out of the bone. Came  
 on after Yellow Fever. Bones  
 that enter into composition are  
 enlarged, find some dead bone  
 which I will scoop out, with chisels  
 made for the purpose. Cut the  
 skin directly over & down over  
 affected bone, & sequester bone.

what they are, nearly the things  
 in the time of Roman & Pagan  
 time & Roman means quite  
 different = anhydrous, at  
 ordinary anhydrous, 240.  
 6. is concealed with 240. H.  
 240 is not about to be 240 H.  
 Anhydrous at 240?

[illegible]

consequent variability of Effervescence translates

Richard Cheney

Allen

dark in  
that the

Next portion  
from before  
to what follows

239. 181

Brookline

to be 75

Embryo

~~And now~~

~~average of 17.1~~

Thomas Wolfe

at the same

unaffected

the court

Known from

The reader



Acetum, Vinegar, (permitting anything with  
carbonic in it to stand in a temperature of  
50 or 60, it will ferment by the absence of  
oxygen) Ancient use, for Diarrhea, uterine  
hemorrhage (sugar of lead is now used for the  
latter) Fevers, sometimes employed as drinks  
laboring on a deposit of any dusky matter in the  
uterine parts, it is used. Carries off the menses.  
used a great deal now in sponging the whole  
surface of a man in fever, in typhoid, not  
in inflammation. <sup>less injurious than as</sup> good in Rheumatism, gout,  
Rheumatism, <sup>dr</sup> 1 dr. <sup>con</sup> 2 times <sup>dr</sup> 1 orange peel  
Another use is in inflammation <sup>in the eye</sup> raised by burning the  
fine line from bleedings. 1 dr is mixed with  
tablespoonful of water. Force with syringe into  
the border of the eye. Another use in burns.  
Soaks, on steamboats in case of scalding. Soak  
cloths in vinegar & apply constantly.  
Distilled vinegar. Acetic Acid ~~White~~  
transparent, colorless, fragrant, most

sofany acid, resembles water, not  
heavier, acid taste, better in prescription  
than vinegar. Spiritus M. by neutralizing  
the car. with vinegar. Remedial  
agents. Abscess in tonsils, when forming,  
is cured easily by this acid, external,  
heat in a covered tin cup, heat  
flannel hot, dip in Acid & squeeze  
& apply to throat, and then wrap  
with bandage 10 or 12 times, The  
throat will be red, thence it is  
Rubefacient. In 10 or 15, blister  
Escharotic, clear off top of corn or  
horny matter, apply heated acid  
with ~~brush~~ <sup>brush</sup>, then wrap around  
some bandage saturated with it. Use-  
ful in hemorrhoids. Through a tube, acid  
was poured on the part directly, &  
when the part is white, remove all  
appliance & apply water dressing

& when pain is gone, apply 5 grs. Red  
Precipitate with  $\frac{1}{2}$  of

Pyroligneous Acid, obtained by burning  
wood, & then by distillation it is obtained

Is Antiseptic, & disinfecting, heavier  
than Acetic Acid, has a wood-smoky  
smell. Remedies, for Warts, passed  
down the fissure, mix with white of egg.  
& pass into it. Good for Capitis  
or Dandruff. Hair removed, and  
surface cleaned apply much  
poultice until softened, Wash it  
with solution  $\frac{1}{2}$  ounce chl. of lime in pint  
of hot water. dry & paint with this  
Acid. Do this morning evening  
and put on oil cap. Cure for Ring  
Worm. It is stimulant. Used in  
this way in Scutellaria Maligna.  
This very fatal. Hyphoid element is  
there. Swallow a portion of it



4 1/2 admin. <sup>orally</sup> by this  
 1 Powder water simple syrup 20 or 30  
 times a day. Arrest grangeous affection  
 removes foul odor. Poison Power  
 Females use it a great deal in reducing  
 fat. Resnet, no appetite, no digestion,  
 Acute of young lady that used  
 this, examined after death  
 the lungs was riddled with tubercles  
 even when taken in small quantities  
 it is poisonous some. Sulphuric Acid is  
 sometimes found in it. It makes  
 sour. Test. pour some into a tumbler  
 1/2 full of water & then pour 2 or  
 3 drops of Acid, & it will  
 turn white. ~~from which right away~~  
 all it had been that is down  
 12. the perfect state, means  
 now, Acetic is likely that 2 3 g  
 4. for the circumstance that  
 2 3 g. 3. 2 1/3 1/3 1/3  
 2 3 g. 30. 00 0 1 2 = Acetic being

Allen, Feb. 18th.

~~John W. Keig~~  
Sat. 3 P. M. Obstetrics

head is 3 1/2 for <sup>transverse</sup> parietal diam.  
4 from back to front, 5 Anterior  
19 1/2 inches long when stretched out,  
11 1/2 in the womb. The plane of  
the is that imaginary  
line which is bounded by

Dickson p  
Monday 25th Practice.

Inflam. presently concurrence of  
Hyperemia or congestion & irritation  
and it is a great source of a great many  
diseases. Bennett claims that there  
cannot be inflam. without  
Exudation: a perverted action  
of the parts called irritation.

Running through the tissue of serum is common

All dropsies are not inflammatory. We have  
inflamm without exudation & exudation  
without inflammation. We have also pus, which is  
Ulceration is also one of the consequences  
of inflammation. Mortification also. That  
of the part, which is inflamed, is the result  
of the impairment of the part by solidi-  
fication of the lymph. This has been  
Common inflammation

Specific Inflammation, Syphilis, small  
pox, Erysipelas, this inflammation, derives its source

from the cause, which has produced

Fever, respect to inflammation is divided  
into 3 divisions 1. Lymphatic. 2.

Serous 3. P. has 2 types.

1. Continuous 2. Periodical

patient may grow getting weaker, more  
emaciated, and then comes in another  
kind of fever called hectic, does not  
run much except for a night before



secret which causes the patient to lose much  
flesh. Rectis occur when there is no prostrata  
entirely independent but attended more or less  
with anophy. Heat has known to rise  
as high as  $120^{\circ}$ , according to Granville, in  
the vagina during Rectis. During  
febrile  $112^{\circ}$  F. The Post-mortem  
heat after Yellow Fever  $113^{\circ}$ . Effluvia cold  
has never been tried rightly. Some  
writers say that during Chills  
it has fallen to  $72^{\circ}$ . In Cholera  
the tongue sometimes to the  
coldness of ice, while the patient  
complains of heat, & the body as  
cold as a board. This is one of the  
most

# Gross Inflamm.

Monday Oct. 25. . . . . Emergency  
Continuity, Continuity, Agency  
of nerves. Sympathy, Blood  
& ways of spreading.

Intimate process of inflammation

What does it consist of? will be  
the subject this morning.

Changes which take place  
Blood is altered in consist-  
ency, in colorless globules  
in fibrin. Always take  
place in the form of  
inflamed blood vessels are in  
a state of dilatation as well as all  
the nerves & veins which connect  
with them. Capillary vessels mean  
such as can only be seen by  
microscope

So called from their resembling in  
size the hair, capillaries. There are  
2 kinds according to microscopists

1. conveying a stream of blood  
continuously. 2. Admits red corpuscles  
very sparingly, one after the other  
When an operation is performed these vessels  
resent the knife to some degree, thus stop all  
circulation there is merely oozing of blood  
if ever that. Red particles are  
supposed to be spheroidal, coin like  
and exist in great numbers & contain  
the coloring matter, more or less iron  
being often. White are much larger  
than red, contain no oxygen, creep  
along side of vessels. There are no platelets  
are much increased in number, the  
white ones adhere to side of vessel  
Red ones become mixed with white  
and there is much confusion. Blood



rushes through. In healthy left ventricle  
of heart contracts 72 or 74 times a minute  
in disease 100, 140, 120 or 130. Red  
decreasing number become without  
weeches, become washed, irregular  
in shape in every conceivable way,  
proving that the lining membrane  
being serum pour out plastic  
matter, and this plasma becomes  
abundant. Blood becomes  
stagnant as inflammation goes on & advances.  
It is not discolored, but also thickened  
heated etc. Altered state of the walls  
of the vessels, brittle, softened, permitting  
the blood to go into the surrounding  
cellular tissue, Eczema. These  
changes take place in the  
vessels themselves. Part inflammation  
is much more vascular than  
a healthy part.

The vessels further carry a much larger amount of blood. There is not more frequency however. We might suppose that nerves carry on an important part, but it cannot be precisely found out. Various theories have been made about this. All speculations concerning them. In early stages of inflammation, there is an increase power, but when ~~circulation~~ part becomes stagnant, there is distility.

Baker

Monday, Oct. 25.

Ob. 1. Air.  $32^{\circ}$  } diff.  $14^{\circ}$

" Water  $17^{\circ}$  } Water  $32^{\circ}$

Experiment



Chimney

Ob. 1. Air.  $32^{\circ}$  } mean  
 Another Ob. Water  $17^{\circ}$  }  $14^{\circ}$



Change produced no increase in volume. And, but  
 leads to change in aggregation. Addition, frogs  
 at 232 Mr 234 & 235 with, that at  
 232 the high and addition was made.  
 Water. added at 32 by addition of water  
 approximately, kept at 212, & 235 p.  
 with stream. Evidence said to be, gas  
 type adding it. The unit volume that  
 is the dissolving unit added. Change from 212  
 at 232 the measure of the water  
 change, for there was more in  
 addition now in melting, but  
 to get answer by heating. At least  
 that occurs when added as unit volume  
 liquid increases. That the heating  
 point of any liquid, the change  
 present is kept in just sufficient to  
 measure the presence of the water  
 phase



If the pressure be less, the force will  
 be less therefore the temperature will  
 be less, It is on this of that liquids  
 boil at lower at the tops of mountains  
 because there is less atmosphere to  
 hold back. If water is below the  
 boiling point, it

Dunblison

Monday Oct. 25 1858 Institutes

432. 1st Ave. Chase and  
 as goes to subject of centrifugal  
 of great commensurate friction  
 whether commensurate and be  
 gathered from walks movements  
 few means about (worse less)  
 16. Electricity and friction. Quadrants  
Ward grounded dust to move  
It is interesting the kind  
later, infinitely a beginning  
corpuscle. are the become themselves

# Dickson



Tuesday Oct. 26. 1888.

## Practice

There is no single constant symptom in Fever. Separate types & forms of fever. Symptoms are all the signs of disease when they occur in certain way, they are reliable signs. Different parts of the body

are not affected the same way. Fever affects the blood circulating system & the nervous system.

It is presented to us always as affecting these two systems. Some of them have their actions on one first then the other.

of this are the sympathetic fever. In a case of a wounded person who has a fever a few hours after. There is great doubt whether

there is any blood poisoning. It is probable that all contagious fevers belong to bacterial & that alone at first. Any

form of fever must exhibit its characteristics which are impressed upon it by its cause.

We ascribe all the varieties of typhoid fever  
to the same cause which produces them. Intestinal  
fever in remittent fever appears  
Periodically divided into 3. Natural  
Changes in Miasm affect us as well as  
the changes of fever. Pulse beats  
differently at night than during day.  
2. Habit. Prudent budget feeding  
this kind on by fasting aches at  
the evening, and continued until the  
had a regular periodical fever chill  
when he stopped. 3. Disinfectant  
has the power under certain circumstances.

Gross.  
Tuesday, Oct. 26. 1858. Laryngeal Inflammation  
in case of White & Decussand Red  
Removal of exciting cause, & preventing  
exciting inflammation. Action. Even when  
the cause has been removed, the disease  
being so far advanced, will still grow. Treatment



being so far advanced, will still grow. Treatment  
of inflam. <sup>10 of 2 1/2 grains</sup> 1. Constitutional & local. of the ab.  
Blood-letting, Purgatives

In many cases the  
Blood-letting will stop the disease altogether. This is  
not necessary in <sup>very cases</sup> inflam. even if a strong syn. fever.  
We are governed by 1st. State of pulse and, morbid  
affections, condition of system at large, & importance  
of the part inflam.

Mitchell

H. P. M.

M. M. & J.

Acidum Benzoicum. Very White. Obtained  
from Gum Benzoin. Not without  
fragrance, although not very. Obtained  
by puncturing the tree. This is the gum.  
It is used reduced to powder, & placed  
on a cancer, the cancer placed on a  
stone. The Acid is drawn off which the  
patient inhales as an expectorant.

It is ~~sometimes~~ used in hemorrhages  
reptoracles

drive up the nose by syring, let  
milk stop hemorrhage  $\frac{1}{2}$  oz. up beaction  
for piles. Make paper cone, paste strips  
together, 3 or 4 in. at base, place 4  
pound weight to rest, lay coarse  
powder of Benzoin, and, when put  
cone over it, & it will be shuddered  
with the acid. This has an empyre-  
matic odor. There is an important  
Pharmacum. It is called Paragone  
Elixir. This, P. A. is always added to  
this mixture. This is used in  
Urinary aff. It stays in the blood  
& does not go out as the acid, but  
Relief of the prostrate gland.

P. B. A. <sup>or</sup>  $\frac{1}{2}$  rubbed up with  
white of egg & whole added to the mixture  
Cathartics  
Carbonic Acid.

It is the gas, which is driven from Burning Water.  
It was used as a remedy in the form of  
injection on fatal ulcers, discharges. Poison.

Fire of charcoal, no means of getting oxygen,  
Oxygen has been consumed to burn charcoal,  
Carbonic Acid or Oxide Gas is formed, & its  
poisons them. Take persons out in the  
air, & throw cold water on them. Sometimes  
apply counter irritants, but they do not do  
good if water don't

Acidum Citricum, lemon juice,  
found in Squill, cranberry, & whortleberry,  
athanasia and asparagus in lemon.

Obtained from lemon by separating  
from lemon by strainer, & evaporate  
these with Carbonic oxide. This is  
mixed with sulphuric Acid, the  
Citric Acid floats on top in crystals  
Very hard to soluble in water



Valuable in Rheumatic Gout, sick  
stomachs. Make drinks 749 ounces  
boil pint of water. To make effervescent  
put 15 gr. in tablespoon & throw into  
other mixture. To distinguish from  
have 4 bubbles, then  
a solution of potash in 2. Pour  
~~the~~ this the Acid, and then  
pour Lactic Acid, & there will  
be a precipitate insoluble in water  
Cream of Tartar

It is used for acidity. There are  
some cases of acidity of stomach which  
can be cured by this. Rheumatism  
to neutralize it, effect in a solution  
of potash.

Hydrocyanic Acid; or prussic  
Acid, the latter came from the fact  
that the first made had something  
to do with prussiate. Compound of

Hydrogen & Cyanogen. If it is pure it is transparent, if there is any iron in it, it will be dark coloured. It ought to be kept either in a dark bottle or some bottle with paper off ~~it~~ to keep rays of light out. This is contained in a great many plants. Contained in Mountain Laurel, Peach Kernel, &c. very potent. A single drop put into the mouth, ear, or eye, will instantly kill. But it serves, Absolute medicinal are the kinds. Medicinal is far less strong than Absolute. Always

~~where~~ D. Douglass  
 D. Douglass Cert  
 Tuesday Oct. 26. 1838 Dushkates

Functions	That relate to the preservation of the individual That relate to the preservation of the species	1. Animal of op relation	Sensation Intelligence Muscular Action (Efforescence) Digestion Absorption Respiration Circulation Secation Excretion Generation
		2. Nutritive	
		3. Reproductive	

Bache Quiz  
Tuesday 4 P.M. Chemistry

## Medical Clinic

Wed. Oct. 27. 12 M. Dickson

1. Young Lady.

3 mos ago

made false step, & has been sick since. Has  
pains in Ankle & Elbow. Rather coincidence  
than cause. Knee was swollen when 3  
years old, and there is a scar. There  
is some constitutional affection. Had  
swelling on neck for 3 weeks, & when she  
catches cold has come. Is a subject of  
stomachic affection. Her feet swell  
after walking about. Keeps her flesh  
and nothing like a cough. Keep the  
constituent well come up without any special  
object but that. There is a small diff. bet  
scrophulous & Tuberculous. Admin. rect,  
Keep feet up. Rub dry mustard on



off parts, under the elbow. Cube of Iodine & Alkali  
is a good alterative. infusion of Cynona  
with Iodine. 10 ounces of C. with  $\frac{1}{2}$  dr. Iodine  
Tablespoonful in Wine glass of water every  
4 hours. Hard to tell whether we can control  
the diarrhoea or prescription

2. Philip Reider, Age 42. Had complaint in  
throat 6 or 7 years. Commenced after eating  
Spiss up occasionally in mornings a little  
blood, No pain in swallowing, sore to touch  
externally, Eat, sick at stomach. Pain in  
Head. Sick at stomach after eating last  
thru. Feel pain all along the face. <sup>Fallen away</sup>  
More touch sickens him. Throat red, <sup>infected, & ~~thoroughly~~ <sup>filled</sup></sup> ~~throat~~  
throws up. Diff. Swallowing sometimes. Swallows  
easily. Case of Chronic Pharyngitis & Chronic  
Charyngitis. Fever, Chills, not every day, in the  
morning. Head very much disturbed when he has  
fever. Pulse frequent, quick. Tongue slightly furred  
red at point. No pain to talk long breath put out  
sleep well. Had throat treated with leucor catie

next day blood runs out of nose. Apply alum  
powdered. moisten fingers with saliva, & apply  
down throat as far as <sup>sgro.</sup> can reach 1 in  
aday or 2. Pres. White of side of Bismar & 2 gro  
of Bone's Powder 3 times a day. after applying  
Alum, wash it out with water, but leave it as  
long as possible.

Richards

been ill for 3 mns.

3 here on 23. much better. Tongue better. Falls  
out <sup>in</sup> lower portion of right lung when breathes long.

Continue same treatment

H. W. Hudson Ho. been sick 5 or

6. years. pain in bones. Ann. sore throat  
has cough with the pain. in knee, no gain.

Chronic Rheumatism. Cough close hand firm  
pain hinders from closing. Hot foot & ankle  
has freezing in throat. Spasms of white

plegm. Fisherman. Appetite not

good. Put him on Alkali treatment.

Acetate of Potash taken in a large quantity

as before. Tonic. Brown. Porridge to drink  
during day two meals. Spoon as usual.

<sup>a. p.</sup> 1 dr. to every 4 ounces water. wine glass in bottle  
Antacid of iron as much as can during day. Keep  
warm. don't expose himself.

5. Margaret M. Linsley. Lick 2 years. Throat  
Began Linsley throat shag. Cough  
troublesome. Pain in throat. Can't talk long  
breath. Coughs during night sometimes  
day. Spits up some greenish matter.  
Difficult to get up. When about rising  
in morning coughs & spits most. don't  
wake up coughing. When going up stairs,  
breath short. Left bronchus swollen but  
<sup>throat</sup> not moving otherwise. Tongue not much  
altered. Laryngitis, not very bad. Tonic  
of Lobelia 5 drops in water.

6. Maria Hunt, 38 years. been sick 7  
weeks. Got up at night throat wet. Coughs  
pains in left side, affecting the chest



must be right. Had fever, suffered from  
 headache. Pulse, irregular, frequent, tense  
 and nervous rare when coughing  
 difficult breathing when coughs. and  
 nervous rare when breathing. Ronsous.  
 Bronchitis, prominently, although probably  
 mingled with some <sup>pulmonary</sup> disease (Epistictum) com-  
 bined with opium. Symp of pills of 1 dr  
 of time of Epistictum desert. Spoonful every  
 2 hours. If don't make sick, take half  
 spoonful. if does, take 1/4 spoonful & keep  
 herself sick. Akute character.

444. But the most easily  
 seen to be such as we feel  
 are, although in that very thing  
 there is the greatest free that we  
 may find out as we wish  
 to be thought, however certain the  
 light must be given. Cause the  
 tongue (Chamomilla) 45, 100-  
 100 is used, commencing recommendation

London. Feb. 15th.

# Surgical Clinic Gross

Young lady. Recd. injury in arm a year ago. Large protuberant back lump at the elbow where there ought to be a small point by the <sup>supracondylar</sup> brachialis muscle. Dislocation of the ulna.

Child's tumor in the iliac region extending towards the ribs. When 15 mos old a little lump was seen there never been entirely absent. If a hernia the contents would have sometimes slip back when child recumbent, & would have afforded the appearance. General health is good. Incision tumor filled with serous matter. Filled with pus. Chronic abscess. Large puncture, & allow the pus to come out, & by & by the tumor will disappear.

Child kept quiet, light diet probably  
to-morrow give a cathartic. Must  
not seek to keep the opening  
assunder. This is an abscess of  
scrofulous nature although <sup>healthy</sup> child -  
3 Child - difficulty in drawing  
the flexor muscles. Divide  
the tendon

4. Boy. Malignant inflammation of the matrix  
of the nails. Spreading ulcer. Malignant  
Ecthyma. This is common among  
children from 5 to 12 years of age.  
Most apt to occur in children  
of a scrofulous <sup>or</sup> disposition. Worse  
at night than day time. General  
health gives way, appetite bad.  
During the progress of the  
disease, Fells hard, tongue  
clean, hair nail off by pieces  
the colour, spotted areas



5th June, 67. Swelling on back  
of hand, 4 rows, tumor, very  
tender, ulceration on top of 4th  
yellowish necrobasis. Tumor  
more at night than day. Not  
preceded by any watery  
thing. hard, suspicious in  
character. Remove it by an  
elliptical, and remove some  
healthy part with it, and then  
draw skin together.

6. Young lady with tumor on  
neck, 3 yrs standing, 17 years  
of age. Be careful in making  
an incision not to let the air into  
the veins lest it will go into the  
heart and destroy life. Glandu-  
lar tumor. not malignant  
character.

T. K. R. W.

Thursday Oct 20. 1887

Practice

Self-limitation of disease. In fever it is  
more marked. It must not be allowed  
to direct our treatment. Each disease has a  
beginning, a middle and an end. Exanthemata. You  
can't prevent the fever & day the progress  
of these by maltreatment &c. &c. I would  
say for instance. There is a stage, as in  
influenza, of incubation, during which impor-  
tant changes take place. Some physi-  
cians say that when appetite returns  
then  
fever ceases to be a thing. I say  
that no man can say when  
fever is over. What day  
cough is one of these. I would say  
that 6 days to 6 weeks the disease  
lasts. There is such a thing as natural  
end to all diseases but they vary from  
circumstances, if you take some

of intermittent fever say a

put or intermittent fever varies  
 according to circumstances. There is a  
 large class which do not have this  
 fever, there is another that is doubt-  
 ful. Of this class is Whooping Cough.  
 Take intermittently fever, the fever of yellow fever  
 for an end, if doubt still remains comes to this.  
 First most simple form of fever is  
 Intermittent fever, that form which  
 is epidemic.

$$\begin{aligned}
 & \frac{4}{9} \pi \sqrt{3} (a^2)^2 \\
 & 2\pi \cdot a^2 \cdot \frac{2}{3} \sqrt{\frac{1}{3}} \\
 & \sqrt{\frac{1}{3}} = \frac{1}{3} \sqrt{3} \\
 & V = \frac{2\pi a \sqrt{\frac{1}{3}} \cdot \frac{2}{3} a^2}{3} = \frac{4\pi a \sqrt{\frac{1}{3}} a^2}{3} \\
 & x = a \sqrt{\frac{1}{3}} \cdot y = \frac{2}{3} a^2 \cdot y = \frac{2}{3} a^2 \cdot \frac{1}{3} \sqrt{3} \\
 & 3y^2 = a^2 \text{ when } y = 0 \\
 & 18u = a^2 - 3y^2 \quad 12^2 u = -6x \\
 & \text{but constant } u = a^2 x - x^3 \\
 & \text{The question} \quad \text{Page 98}
 \end{aligned}$$



Tropisms by Sean  
Swift.

A Woman in passing  
near a Fremona fiddle  
knocked it down with  
her Mantua. The Dean,  
shouted out

"Mantua, vae misera nimis  
-um vicina fremona

A Man lost his specta-  
cles on a rainy night,  
The Dean consoled him  
by saying

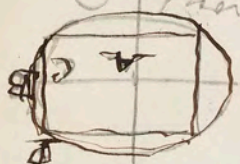
totu  
habe pluit ~~note~~, redempt  
spectacula mane

$$\sqrt{2k \left( \frac{a^2}{2} (a^2 - x^2) \right)} = \left( -2k \frac{a^2}{2} (a^2 - x^2) \right) \times (x^2 - a^2) \left( \frac{a^2}{2} (a^2 - x^2) \right)$$
  
from equation of ellipse  
$$r = 2 \pi x^2, \quad r^2 = 6^2 (a^2 - x^2)$$
  
% altitude is 2x  
The radius of base of cylinder

area minimum,  $a = 6\sqrt{\frac{1}{3}}$   
 $x = \frac{1}{3} \sqrt{2}$   
 $x = \frac{1}{3} \sqrt{2}$   
 $x = \frac{1}{3} \sqrt{2}$

$$2\alpha\beta = \frac{a}{3}$$

1, ellipse may  
 be inscribed around  
 rectangle or have  
 rectangle around  
 it. area, point  
 given by coordinate around



Given by coordinate around  
 rectangle, area  
 ellipse is  $\pi ab$   
 given as product of semi-axes  
 a rectangle, given  
 a rectangle,  $PC = a$   
 $AC = x$   
 $(x+y)/2$  = semi-major axis of ellipse  
 $\frac{d}{dx} = -\frac{dy}{dx} = -\frac{dy}{dx}$

$$\begin{aligned}
 \text{98. } du &= \frac{(4+y^2)(4y^2 - 12 - y^2)}{(4+y^2)(4y^2 - 12 - y^2)} \\
 &= \frac{(4+y^2)(4y^2 - 12 - y^2)}{(4+y^2)(4y^2 - 12 - y^2)} = 0
 \end{aligned}$$

$4y^2 - 12 - y^2 = 0$  gives imaginary roots  
 The other solutions

$$\begin{aligned}
 4y^2 - 12 - y^2 &= 0 \quad 3y^2 = 12 \quad y^2 = 4 \quad y = \pm 2 \\
 3y^2 - 12 &= 0 \quad 3y^2 = 12 \quad y^2 = 4 \quad y = \pm 2
 \end{aligned}$$

$$\begin{aligned}
 du &= \frac{y^2(4+y^2)(4y^2 - 12 - y^2)}{y^2(4+y^2)(4y^2 - 12 - y^2)} \\
 &= \frac{y^2(4+y^2)(4y^2 - 12 - y^2)}{y^2(4+y^2)(4y^2 - 12 - y^2)}
 \end{aligned}$$

and substitute and you  
 get



$$To: a :: p: d :: c: r.$$

$$2x, a+x, y, dR = ay+xy$$

$$\frac{(a+x)y}{2x}, \text{ area } CSR = (a+x)^2 y$$

$$\text{from equation } y^2 = 2xy$$

$$y^2 = \frac{a^2}{2x} \quad \text{for } h = \frac{a}{2x}$$

$$x = \frac{y^2}{2} \quad a+x = \frac{2y^2}{2} + \frac{y^2}{2} = \frac{3y^2}{2}$$

$$4x = \frac{2y^2}{1} = \frac{2y^2}{2x^2} \quad (a+x)^2 = (2y^2)^2$$

$$\text{area } CSR = (2y^2)^2 \cdot \frac{4x}{2} = 4x^2 y^2$$

$$(2y^2)^2 = \frac{1}{8x} \cdot (2y^2)^2 \cdot y$$

$$u = (2y^2)^2, \text{ but } u = 2ya$$

$$u = (2y^2)^2, \text{ but } u = 4y^2(2y^2) = 8y^4$$

951

$$u = 2hx^2 - x^3$$

$$u = 4xy - 3z^2$$

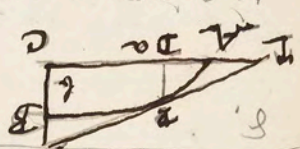
$$4xy = 3z^2$$

$$4x = 3y$$

$$y = \frac{2}{3}x\sqrt{z}$$

$$x = \frac{4}{3}y, y = 0$$

$$\Delta^2 u = 4x - 8y - 4z$$



Portion of curve  
parameter length

in circumference about curve  
when radii are all tangent  
to circle of curve when the  
hypotenuse is tangent to  
circle at curve after the co-  
incidence with AC & CD. Length

Portion of curve  
AC = a BC = b l^2 = 2ya

$$\text{arc length} = IC \times RC \quad h = \frac{4x}{2a}$$

$$PD = y \quad AD = x \quad \text{Portion of curve}$$

$$IA + AD = 2x \therefore ID = 2x$$

$$IC = AC + IA = a + x$$





with it. I hope you will

it does. and we get it in many  
go to buy new a pair to turn

about with a little, less. 29.

shall be the best of the

year or 12.38. in the year

of 35, we can (I suppose)

if we have common sense,

(don't in the most beautiful

very little in the 238.6

had made most of the in the

is for a number of years

but it is a little different from

them, to see those who

they are and where they

delight in being

13, are very far a

reads is feeling

into of the year. 12.38

moderately common, but not

is. That is what we find

that the in the year 12.38

ingress for the year 12.38

Along with

237, 18, it seems to me

that this (circle of flowers)

in many kinds of flowers

it one makes a little round

definition - B. working to

among other things that the

one was buried in the

Archeological (Pic) 18. and

figures in turn what the end

would show it alone by the

(body) it seems to me that

of the following the place

this name, under the impression

that the one was suffering

from him, in account

of the things, finished it is

finished 27. that this

(known) was the the super

(the Raining means) of

the one as it was

with it. I hope you will

89.93. 200 pavers are now  
 Calap (medium) in speaking  
 in a French manner. try  
 reads technical 13, however  
 it appears disaffected in using  
 with being named as it  
 was understood that subjects  
 who try not over X 77 r.)

Prater, Feb. 14th.

to move over hand take  
 3 times first on over a foot  
~~MS~~  $f = m \times s$  ~~with~~  
~~MS~~  $s = \frac{v}{v'}$   
 $5 \times 12 \quad \mu = M \frac{v^2}{2}$   $\mu \propto M \frac{v^2}{2}$   
 if body rotates about an  
 axis  $v \propto r$   $\mu \propto M r^2$   
 and a soft form  $f = m v$   
 $f = m v$  but  $f = m v / m$   
 moving particles) for a far  
 and r.



by 500 calibrations, 234, 15,  
 square plate & with you  
 Polydromus altilateralis.  
 If we see the point of  
 very interesting = it is  
 as a healthy = it is  
 the nature, 20. how (15)  
 advent of manner 21, 525  
 turn place in light to  
 clear in an off handman  
 new English building  
 we to clear (as 2005)  
 (2005) & arranged in  
 cutting in 27, 27,  
 Rock just in the 237,  
 = 1.00 to 1.00 (2005) =  
 above, 4.00 (2005)  
 in morning about 1000  
 at regular interval in  
 0.005 at least 20 to  
 hole, 237, 10, 1000







89. 20 38 100 to 1000

being, Rurik to Rurik  
confused duration look  
237. (to) 241  
marked area was 1000  
into into cells too as  
phase in Rurik Rurik  
242, 243, 244, 245

wireless of 241

Did you go any further down

this? he indicated you had

didn't go did you but in

Rurik he did. 245, 246

yes. 249 to water in

into Rurik. 256, 257

described that a great length

on Rurik, 253, Rurik

Rurik Rurik Rurik

there, 254, 255, 256

how will be there (Anglo)

262, 263, 264, 265

have 266 end of 267

case in Rurik 268.

202 for water

have been working in

clashes in an effort

direction, 206, as well as

kind of needles and

209 a very few frequently

reference for all, 213, 198, 199

fixed in place, 214 & 209

direction, 215, they did not

design at all to look like

cast a look, 218, 198

finding grammar, 221

also fall, 221, to a

another, 226 that the

you ask, 228 others

as even as, 230, arranged

his dinner, 232

from a side, 236

of several months as the

they were not considered

87. Last line page 430, ~~note~~ that they might

peak, believe some  
expressed their reasons  
in purpose. 3. Conclusion,

4. Conclusion. 431.30  
line one appeared looking  
redrawing just look that  
there was a note to 431

to bring it out - put,  
to interest, 431.5, under  
their guidance 11. ~~purpose~~  
that 431.5, direct at was

went to pay, 430.15  
good as your first and  
one. p. 7. on of subject,

order recommended  
to. XIII what the articles  
been determined as after  
most likely.

Clear. Feb. 1904



Jackson. Feb. 10th

Protho: Whipple 429

See 1 line from bottom  
less of the means

the a subtraction 40.

more than 1430

7th line from after

Andrews says one of these

who are known as rollers.

430, 13d line from bottom

Protho: subtraction di-

visions in the subtraction

ment of the residue, 15.

face adjective, XIII

Herodotus says "that"

"Men" only not "Hades"

Lead. 430. 13 from bottom

Quam: Herodotus says

Herodotus 430, 7th

line from bottom, varied

at least from copy.

I have been for the sake  
 of the number in the  
 manuscript for 235, 10,  
 This means horses added  
 because, 235, 7. 8 for  
 because the horse was  
 born from 14 years later  
 at birth. 8. 7 for  
 with 1000 given  
 11. one <sup>and</sup> 1000 horses  
 at 11. 17. 1000 horses,  
 every other day and a  
 space between 1000 horses  
 with 10. 1000 horses  
 means can't 1000  
 of 1000 horses 1000  
 every 1000, 1000  
 and not at 1000  
 horses 1000  
 22. 1000 horses 1000  
 1000 horses

Allen. Feb. 9th. 1859

15 Jan 234, also try

at average date normal

\$317. <sup>Ken. 234</sup> also try 30 Jan

think it is at other things

than what is given: = normal

234, 18. therefore this means

exactly and that, <sup>234</sup> means

21. or 234 (or 234) <sup>234</sup>

to the name, 25, <sup>234</sup> 234

for make the proportion

also in this way 234

at least 234

to my record, 234

28. further in this paper

in which way, 234, etc

name of line has been

attached to show the same

has been 234

copy the whole 234

and it has been 234



from that get & say  
 $\lambda = 2.45 \times 10^{-10}$

$$\frac{1}{\lambda} = \frac{1}{900 \times 10^{-10}} = 1.11 \times 10^8 \text{ cm}^{-1}$$

3.9 The same at, 35,

frequency given value of  $\lambda$  is  
 $\lambda = 900 \times 10^{-10}$  there is a value  
 of  $\lambda$  which has the

same = same of first quantity  
 therefore  $\lambda_1 \lambda_2 = \text{constant}$   
 any value of  $\lambda$  can be substituted

air, 36, to get difference

difference (19)

$$4 \text{ waves in } \lambda \text{ day} = 4 \text{ waves in } \lambda_2 \text{ day}$$

$$\lambda \text{ day} = \lambda_2 \text{ day}$$

$$4 \text{ waves in } \lambda \text{ day} - 2 \text{ waves} = 0$$

$$2 \times \lambda = 4 \text{ waves in } \lambda \text{ day}$$

$$\lambda = 2 \times 10^{-10} \text{ cm}$$

Assume  $(t=t')$

$$\frac{1}{\gamma} \frac{dt}{dt'} = \gamma \quad f = \frac{b}{2\pi\gamma}$$

$$g : g' :: v^2 : v'^2 \quad g \propto \frac{dv}{dt}$$

$$g' = g \cdot \frac{v^2}{v'^2}$$

$$f' = \frac{b}{2\pi\gamma} \quad f'(=g') = g \frac{v^2}{v'^2}$$

$$b : b' :: \frac{v^2}{v'^2} :: v : v'$$

$$\frac{1}{\gamma} \frac{1}{v^2} :: \frac{1}{v'^2} :: v' : v$$

$$\frac{v'}{v} = \frac{v^3}{v'^3} \quad v' = v^3 \frac{1}{v'^2}$$

$$v' = 12.6 \cdot 615$$

Proposition

$$44 \text{ km CO}_2 = 44 \text{ km CO}_2 - \frac{1}{2}$$

and when any angle is formed  
 87. matter is present to the  
 know this ability to shall  
 and know them, then the  
 and not achieve the 8/10th

of the

whole of a new American

in number, XI, 38 day

think that he is when

there has been forcing, to  
 has been used by fire -

greatest effect. XI 38

the quality of the ground to

the ground (surface)

same result with respect

ally.

7 m. 20. 8. 8.

distance from east where

$f = 5$ . in hours

$f = 1.111 \frac{1}{12}$



Jack Rame Feb 28

428. 35 at 14 die am  
when we say 36 at 14  
when now this at more

429. 36 at 14 die am  
when now this at more

430. 37 at 14 die am  
when now this at more

431. 38 at 14 die am  
when now this at more

432. 39 at 14 die am  
when now this at more

433. 40 at 14 die am  
when now this at more

434. 41 at 14 die am  
when now this at more

435. 42 at 14 die am  
when now this at more

436. 43 at 14 die am  
when now this at more

19. Show there is no max  
or min. Differentiate  
twice and assume let. to  
be 0 locally. Verify get  
one more value for  $f$ ,  
and substitute that in  $f$ ,  
of  $f$  which then is max. value  
of negative "max."  
of  $f$  get a fraction in  
it. It's first term is zero.  
of fraction = 0 numerator  
be 0. of  $f$  in  $f$  have  
get value of  $f$  and have  
compare that with  $f$  at  
end.

Heat,  $\Delta y$ ,  $\Delta x$  be given  
then all the heat sent a-  
cross the value - when

there is not, or given

$\Delta y$  must be 0, because

$\Delta y$   $\Delta x$  in these 2 equations

are in every other in

signs and can't be the same

in order to get equality

$\Delta y = 0$ , find 1st diff

and  $\Delta y$ , a make it = 0.

value of  $\Delta y$  must

be 0, 1st, diff.  $\Delta y$

map, or given, it

must then make 2nd

diff,  $\Delta y$ ,  $\Delta x$ ,  $\Delta y$

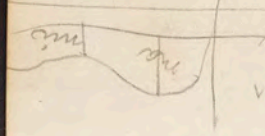
for map, diff make

find equal to 0 it must

make the 2nd = 0 or



17. the preceding  
 left hand side

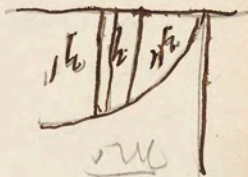
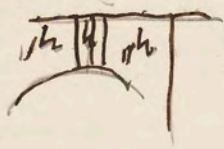


$y = f(x)$  what conditions  
 must be satisfied so that the  
 function is greater than the  
 curve  $y = f(x)$

$$y' = y + \frac{1}{y^2} \cdot \frac{1}{y^2} + \frac{1}{y^3} \cdot \frac{1}{y^2} = y + \frac{1}{y^2} + \frac{1}{y^3}$$

$$y'' = y - \frac{1}{y^2} + \frac{1}{y^2} \cdot \frac{1}{y^2} + \frac{1}{y^3} \cdot \frac{1}{y^2} = y - \frac{1}{y^2} + \frac{1}{y^4} + \frac{1}{y^5}$$

$$y''' = y - \frac{1}{y^2} + \frac{1}{y^2} \cdot \frac{1}{y^2} + \frac{1}{y^3} \cdot \frac{1}{y^2} = y - \frac{1}{y^2} + \frac{1}{y^4} + \frac{1}{y^5}$$



If the function is a map,  
 both values will be negative  
 & more or less positive  
 for small quantities but  
 less greater than all the

234.8, Poetry & Yoga-

meter, 14. But the 9th

are nothing but Poetry.

At this, Rata is found

~~which is a copy~~

Ken Ball, Dec. 7th,

and find the present form  
the subject to page 84.

Maxima & minima.

is and may alternate  
represented by other and  
arrows of a curve.

maxima & minima

that value of maxima which

give the greatest possible

& least possible values of

the function. But we know

it so that value that

gives us the value which is

maximum of  $f(x)$  than

on the by chance in this

and may be as

the other things that

the weight 238.85 lbs

very near perfect

the one may be

233.16, 238.85 lbs

238.85 lbs

238.85 lbs

238.85 lbs

238.85 lbs

238.85 lbs

238.85 lbs

238.85 lbs

238.85 lbs

238.85 lbs

238.85 lbs

238.85 lbs





13. *Not only*  
but to *argued hypothesis*  
defends a *merchandise* of air  
more *merchandise* in *air*  
*atmosphere*, that is  
determined off by *atmosphere*  
moving *front* at which  
it will be *discharge* also  
Daniel's *the front work*  
that, it is a *crystalline*  
*electric* ball, and *but* *the*  
is *deducted* the *merchandise*  
diffusing in *air*, *other*  
but *fills* not *air*, it  
is *not* *the* *merchandise*  
The *the* *merchandise*  
height, *the* *merchandise*  
much *the* *merchandise*  
merchandise, *the* *merchandise*  
the *merchandise* *the* *merchandise*  
with *merchandise* *the* *merchandise*

He absorbed and it was  
first ~~at~~ <sup>in</sup> ~~the~~ <sup>the</sup> ~~earliest~~  
hypnotism founded in  
deep ~~conscious~~ <sup>conscious</sup> ~~in~~ <sup>in</sup> ~~the~~ <sup>the</sup> ~~earliest~~  
human have power  
is attracted to it, and  
has fixed to feeling. As it  
also ~~is~~ <sup>is</sup> ~~in~~ <sup>in</sup> ~~the~~ <sup>the</sup> ~~earliest~~  
hands, and ~~in~~ <sup>in</sup> ~~the~~ <sup>the</sup> ~~earliest~~  
it is called a hypnotic  
Call's ~~is~~ <sup>is</sup> ~~the~~ <sup>the</sup> ~~earliest~~  
hypnotism, another  
place has the ~~earliest~~  
on ~~the~~ <sup>the</sup> ~~earliest~~  
covered with ~~the~~ <sup>the</sup> ~~earliest~~  
not naked but ~~the~~ <sup>the</sup> ~~earliest~~  
also ~~the~~ <sup>the</sup> ~~earliest~~  
also ~~the~~ <sup>the</sup> ~~earliest~~  
one is ~~the~~ <sup>the</sup> ~~earliest~~  
nature of water - ~~the~~ <sup>the</sup> ~~earliest~~



St. Bernard had noted  
Titators. When he heard them  
they said they could hear  
it just take look - of  
2100 while water looked  
1920. He told them to put  
a lid on it which they  
did & sealed the pot  
St. Bernard put a bottle  
over over both the mudding  
M. give the be at 370 in at  
shock true. Just been  
found it was more pro-  
dure you lower mudding  
do occur great risk  
than water of some measure  
Confidence in the water  
discovery of water before  
air, & gas and a vapor  
conditions are. Making vapor  
arise. Out of determining  
is called by the mudding  
Place of great mudding of

Afternoon, Jan 20  
orderly, little of gas  
except, this is a very li-  
quid itself, they under  
to electric force increases  
in length, but much more  
gently, double of vapor  
have great electric force  
when generated at bottom  
and when they come up  
they must have electric  
force more than 15 lbs.  
to per inch or else they will  
attain the 13th at 2120  
because the electric force  
is then = that of atmosphere  
ing force, at bottom of  
mine it takes the particles  
to last, group together with  
at lower temp, first day  
more than at 1st

water until it reaches the  
69. greatest latent heat,

the ice begins to melt  
as we go back from 0°

down enough by some path  
to - 80° or - 85° See also

how cool of other parts  
- 1950. See also various parts

of the surface. Pure glass  
is pretty experiment. It

is a very poor conductor  
in water. The same path

and first as other but drop  
of the water into

the other - the water  
has been into a gas phase

which has other with force  
the force is called black

or black force of water.  
At present under boiling.  
It comes up in pieces of



and, first water in it, and  
then close and let it cool.  
There will be vapor of water  
only but put back in itself  
part and the water will freeze  
with it. This depends on fact  
if you have the balls in -  
mixture with no air in  
them. (See water in one  
of water goes over the top  
in the other, - freezing  
mixture. depends on fact  
that water becomes li-  
quid take great heat  
in vapor want to do it. This is  
probably Chemical Combination.  
as time. But different  
with No. 10. In mixture  
there probably some of great  
heat, for oxygen + small  
water part and cool them

67  
mean in both cases  
and that having been  
of the preceding  
12. which had made  
of the preceding  
it was done at the  
or not. 14. 15. 16. 17.  
to the same.

Tuesday, Feb. 7th  
 Detroit is certainly a beautiful  
 city. Beautifully situated  
 on the banks of the great lake.  
 It has a fine harbor, and is  
 a fine place to live in.  
 I have been to several  
 of our interesting places,  
 also in view, in our  
 first expedition of the  
 week. Dr. Mc  
 taken several and we have  
 had a very pleasant  
 trip into the lake.





$$\theta = 4h \times \text{vertical} - \theta^2$$

$$0 = \theta (4h \times \text{vertical} - \theta)$$

$$\theta = 0 \text{ or } (4h \times \text{vertical} - \theta)$$

$$\theta = 4h \times \text{vertical}$$

Answer:  $\theta = 4h \times \text{vertical}$

2319. <sup>By your</sup> What point of things  
are. Three <sup>of the</sup> ~~advent~~ <sup>advent</sup> which took  
place many & times to him  
also living of which the end

(was) his coming was ~~advent~~ <sup>advent</sup>  
test of ~~advent~~ <sup>advent</sup> with the  
distance and to him dead in  
Heaven the ~~advent~~ <sup>advent</sup> of the  
then erect his head to render

fully concerned with his name  
it is wonderful how ~~advent~~ <sup>advent</sup>  
as and it seems ~~advent~~ <sup>advent</sup> ~~advent~~ <sup>advent</sup>

(that) ~~the~~ <sup>the</sup> ~~advent~~ <sup>advent</sup> of the ~~advent~~ <sup>advent</sup>  
of ~~advent~~ <sup>advent</sup> (a ~~advent~~ <sup>advent</sup> ~~advent~~ <sup>advent</sup>)  
seems to have given to him such  
a name of one wishing to ~~advent~~ <sup>advent</sup>

vertical and horizontal of

velocity is decomposed into  
horizontal & vertical

components but gravity only  
affects the vertical one then -

for gravity only affects  
the vertical of the point

and not the abscissa that

is decreasing along OC, therefore  
for B' will be in same line

AB' is plane directed in time

t with velocity v of gravity  
did not act  $\therefore AB' = vt$

that is ordinate of point B'

along B' B B' is displacement

due to gravity that is  $\frac{1}{2}gt^2$

in time t. and is also = X'

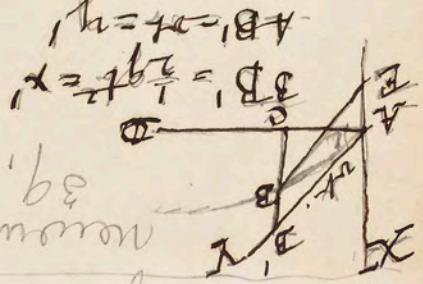
is constant & is con-

stant and we have

$$X' + z = vt + t$$

$$y'^2 + x'^2 = \text{then shown}$$

newer form



$$t = \frac{v}{x} = \frac{1}{2g} \frac{v^2}{x^2} = \frac{1}{2g} \frac{v^2}{x^2}$$

$$\frac{1}{2} \frac{v^2}{x^2} = \frac{1}{2} \frac{v^2}{x^2}$$

$$\frac{1}{2} \frac{v^2}{x^2} = \frac{1}{2} \frac{v^2}{x^2}$$

$$\frac{1}{2} \frac{v^2}{x^2} = \frac{1}{2} \frac{v^2}{x^2}$$

$$\frac{1}{2} \frac{v^2}{x^2} = \frac{1}{2} \frac{v^2}{x^2}$$

A vertical direction of

Moscovite is axis of y and

of x axis of x. Rupture pro-

jectile top unit velocity 2-

and spherical bodies to

A-B' cutting line of there was

no gravity but gravity waves

made it be at B in vertical

line because measure is



therefore we denote  $B, B'$   
in time denoted  $B'' B$

therefore let  $A$  (right) we  
denote  $A'$  in time would do

points  $2L$

$$t = \text{time of descending } AC,$$

$$s = \frac{1}{2} g t^2$$

$$2L = \frac{1}{2} g t^2$$

$$\frac{2L}{g} = \frac{1}{2} t^2$$

$$t = \sqrt{\frac{4L}{g}}$$

$$\text{Hence } \frac{1}{2} I' t + \frac{1}{4} I t = 1$$

$$\frac{1}{2} I' t + \frac{1}{4} I t = 1$$

therefore both go down

~~AC~~ along  $AC$  in length

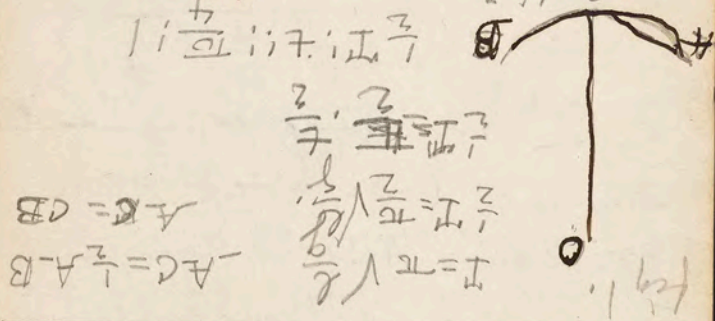
time taken down are  $AC$ .

$$f \propto \frac{1}{\sqrt{L}}$$

$$f = \frac{1}{4\sqrt{L}} = \frac{1}{4\sqrt{2}}$$

61. probably the 2.50, 2.3,  
 Boukétar means, 2.50.2.5  
 A try putical bloods in -  
 placed by gods to turn a  
 (good man)

Inter Milan, Feb. 3, 1911



$$2x/2e = \frac{1}{2} g t^2$$

$$\frac{x}{g} = \frac{t^2}{4}$$

$$\sqrt{\frac{x}{g}} = \frac{t}{2}$$

By. and 14  
 density 18.13"  
 in time do -  
 dense 18.13"  
 case 18.13" h  
 18.13" = 18.13"

for the murder of Chapman  
by him and the small things  
he did to fugitive, all these  
the — — — — —  
attribution of the name  
kind a little to one side and  
is concealed so that not to  
manifest to all the  
231, 1. ad. ~~debetur~~  
against this notoriety I  
was advised in the murder of  
of Myrdens that he became  
unable to procure testimony  
and was not to see any of  
the things found which he  
late) to the white race with  
his much misfortune he  
felt I seeing the near  
only and the matter at hand  
for this is near when he de-  
scribed in every way to me  
do not know, and even  
and would think that



23 of the 2305 number -  
 heavily expressed it is sure  
 (confirm) them everything  
 (H) copios (H) KIDNEY  
 2305 in all it  
 free. I have 230. 15 for  
 Agammmon found the pink  
 as one that is later to later  
 through of active carrying through  
 with movement (as a as a  
 glutamine (which is found  
 good to know, nothing a com -  
 (rag to go to pressure and  
 endurance) (H) (H) (H) (H)  
 much as what he is feeling  
 again, by through (H) (H) (H) (H)  
 and the first of the and of  
 (Telos completely perfecting  
 his entire movement endurance  
 wait to delay at any of the  
 multitude the name Agam -  
 Hecumen - and perhaps there is right

olive oil

ice

milk

milk

oil of turpentine

JEg

liquid H<sub>2</sub>O

360

320

300

200

140

39

400

Salt, Carbon 1160 (Borings)

pyrothe pth 1320

pyrothe pth 1510

Camphene 3150

8 mether

6010

Allen, Gila, 2nd

12, as to the matter we were  
just now speaking of, but

lower (the names) frequently

the found thing 230.4

(or a modification of it)

George (the name)

which requires the other

Platinum  
Cast iron  
Gold  
Copper  
Silver  
Antimony  
Zinc  
Iron  
Lead  
Tin  
Sulphur  
Magnesia  
Potash  
Soda  
Nitrate  
Nitric acid  
Hydrochloric acid  
Sulphuric acid  
Phosphoric acid  
Carbonic acid  
Hydrogen  
Oxygen  
Nitrogen  
Ammonia  
Water  
Alcohol  
Ether  
Acids  
Bases  
Salts  
Minerals  
Vegetables  
Animals  
Fossils  
Metals  
Non-metals  
Gases  
Liquids  
Solids



It on beam place a tube

from floor into it put

steam into it steam

condenses in form water

condense it to 1850 and

now you'll find you have

9 ounces of water 17

1 ounce of steam in condensing

don't heat 80° of steam

120° or 122 But it has

Costs from 212 to 1850

240 But that is 1000

1824 or 12.7 that

1 ounce of water in 76 in

passing from steam at

212 to 1850 at 1850 has

raised 1024 units of water

one degree, heat equivalent

was tank, 8 1/2, heat, latent

heat needed after 1 hour

651500:40:1000

Latent heat of steam at 1000

965.7° Regnault has

Latent heat	1000
Water	1000
Alcohol	760
Ether	1630
Oil of turpentine	1380
Mercury	3350
in becoming	
steam at 1000	
Latent heat to	
Water	1000

Latent heat the latent  
 oil turp. of steam, alcohol,  
 in etheric latent heat de-  
 mension, Rule of heat,  
 Sum of latent heat & latent  
 is constant  $\lambda + t = \text{constant}$ ,  
 this is not of necessity,  $\lambda + t$   
 in this heat, practically  
 it will do, sometimes this  
 the pressure of steam  
 and steam at 1000  
 when pressure 600 balance

Wt. g.

Methyl oil

CO<sub>2</sub> (sp. gr. 1.843)

oil of turpentine

CaCl<sub>2</sub> (anhydrous)

NO<sub>2</sub> (sp. gr. 1.42)

Water

Hydrochloric

Alcohol (sp. gr. 0.795)

Wt. 40 (sp. gr. 0.945)

Ammonium of C.

Sulfuric

Hydrochloric

Barium

Water (distilled)

Travel very hard of vaporization

below 31°

Water used

forming cause

CO<sub>2</sub> of

Water in amount

you want for

CO<sub>2</sub>, Heat in

absorbed, Heat,

determined by

supernatant like

the other before

water at 62° put

It is oil facts

at emulsion lamp,

water the absorption

which requires 6

mls. from 62°

to 212° degrees

long there, the

moving phenomenon

it will take

40 mls

662

630

600

581

514

314

300

248

212

192

173

140

110

96

52



enough to raise 140 lbs.  
 sea water one degree, then  
 warm steam is warm enough  
 to dry, being fresh & dry,  
 it will do. So then  
 a lb. of ice will heat about  
 enough heat enough to  
 raise 140 lbs. a degree,  
 latent heat = heat of dis-  
 solution. For example  
 this state is an abundant  
 but especially one of the  
 other crystalline or a-  
 morphous melting pts.

Sugar	320	1940 - 2120
Amorphous	3920	2570 - 2660
Crystalline	2842	1940 - 2360
Ice	4000	2200 - 2300

Water continues heat, heat  
 less, then it begins to heat  
 there, with very little with  
 ice water has gone here in  
 latent heat of vapor

The all ice has melted and thus  
the other thermometer is at 17.2°  
This is called latent heat or  
heating capacity, to show you  
that that heat is there.

Take some water containing  
melted ice and put in other  
therm. and keep it at 32° until  
it all turns to ice  
and thermometer rises to 32°.  
Have also the heat of fusion  
from the water which  
drew it out, amount of heat  
latent heat of water is 140°  
is statement of 1st experiment.

7 March Day 4 00 in 20

that that would raise 140°  
of operation 1 degree & is latent  
heat of water, at 32°  
many things, then a  
first freeze each 20°  
water gives out heat

51. Change in density of  
 hot body gets hot & cool  
 as air flows from heat body.  
 and its velocity varies off  
 from hole. From very large  
 body of heat.

State of body depends  
 on an isothermal. But less or  
 not melted. Gases contain no  
 known signs of fusion. Some  
 a magnetic material. Every  
 body being made of particles  
 of electric battery makes good  
 of electric battery. Heat  
 at 0° ice. in vacuum slowly  
 heat a thermometer from 32°  
 than it melts. then goes. The  
 measure it. The much before  
 mark data 2 reads 111.4  
 at 32° and ice at 32°  
 place the thermometer in each  
 of these two points of heat  
 degree to mark it. Read at 32°



Miss the City

Anna why that

426.7

Correllus

to, which according to 8.8.11

15.07

Reverend

just therefore

change your

down in  
will be  
indicating,  
indicated

7 pages of 1st vol.

man has been

heart. On the other hand

front of him, and of course

about half with greatly

than water at night, but

green of more by the

than in water. After some

clearly, but the other

in several months

49. Researcher's duty to the  
community. Duties to  
community. Notes to  
State Historical Soc.

27. Study have observed  
that they are defective.

Down to the  
his knowledge  
history. important  
toward the history of  
toward the history of  
toward the history of

study to the history of  
study to the history of  
study to the history of  
study to the history of

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study to the history of  
study to the history of  
study to the history of  
study to the history of

Jackman Feb. 1st.

Jackman & Jackson

Jan - 11 239 .004, 184, 100, 418, 410  
 + 004, 184, 100, 418, 410

2,101 — 00,000,000,000,000,000,000  
 + 004, 184, 100, 418, 410

$\left(\frac{1}{293}\right) 1.000,000,000,000,000,000$   
 $\left(\frac{1}{293}\right) 5.000,000,000,000,000,000,000$   
 $\left(\frac{1}{239}\right) 3.000,000,000,000,000,000,000$   
 $\frac{1}{239} = .004, 184, 100, 418, 410$

$\frac{1}{4} \text{ Jan} = .789, 562, 239, 349, 520$   
 $\frac{1}{239} = .004, 184, 100, 418, 410$   
 $\frac{1}{450} = .765, 396, 165, 397, 446$   
 $\frac{1}{11} = 3.141592653589794$





$$2x = t_{\text{ant}} - x$$

$$\tan 2\alpha = \frac{\frac{5}{2}}{\frac{17.25}{2}}$$

13th June 1891

$$\frac{24}{28} = \frac{5}{12}$$

$$\frac{10}{12} = \frac{12}{144}$$

$$\frac{10}{12} = \frac{119}{144}$$

$$\tan(n - \epsilon) = \tan n - \epsilon$$

$$1 + \tan \theta \tan \phi = \frac{120}{119} = \tan(44 - 45^\circ)$$

$$\frac{119}{1} = \frac{239}{119} = \frac{450}{119} = 4a - b$$

$$-5x - \frac{5}{1} + 3x \frac{8}{1} - x$$

$$Q^2 x = -2u + 4u^3 + 6u^5 + 8u^7$$

$$Q^3 x = -2 + 12u^2 + 30u^4 + 56u^6$$

$$Q^4 x = 24u + 120u^3 + 336u^5$$

$$Q^5 x = 24 + 360u^2$$

make  $w=0$  in formula

$x = \tan^{-1} u$  all derivatives

$$D^2 x = \frac{1}{1+u^2} \quad D^3 x = -\frac{2u}{(1+u^2)^2} \quad D^4 x = \frac{6u^2 - 2}{(1+u^2)^3}$$

$$D^5 x = \frac{24u^3 - 24u}{(1+u^2)^4} \quad x_0 = 0$$

in formula you get

$$x = \tan^{-1} u = u - \frac{1}{3}u^3 + \frac{1}{5}u^5 - \frac{1}{7}u^7 + \dots$$

$$x = u - \frac{1}{3}u^3 + \frac{1}{5}u^5 - \frac{1}{7}u^7 + \dots$$

to find  $\pi$

we have are in terms of tang.

odd powers of tangents  $x =$

$$\frac{1}{3}x^3 + \frac{1}{5}x^5 - \frac{1}{7}x^7 + \dots$$

$$u - \frac{1}{3}u^3 + \frac{1}{5}u^5 - \frac{1}{7}u^7 + \dots$$

$$4 \tan^{-1} \frac{1}{5}$$

$$\tan(2a) = \frac{2 \tan a}{1 - \tan^2 a}$$



$$\partial^3 x = u \frac{d}{dx} (1-u^2)^{3/2} + (1-u^2)^{3/2} \frac{du}{dx}$$

$$\partial^3 x = (1-u^2)^{-3/2} - \frac{3}{2} (1-u^2)^{-5/2} u^2$$

$$\partial^4 x =$$

for  $x = \sinh u$ ,  
 ~~$\frac{dx}{du} = 0$~~   $u = 0$   
*formula*

$$X = X_0 + \partial^2 x u + \frac{\partial^2 x_0 u^2}{1.2}$$

$$\lim u = 0$$

$$\partial^2 x = 0$$

$$\partial^2 x = 1$$

$$\partial^2 x = 1 / \sqrt{1-u^2}$$

$$\partial^2 x = (1+u^2)^{-1}$$

$$\frac{1}{1+u^2} = \frac{-u^2}{-u^2-u^4}$$

$$\frac{u^4}{u^4+u^6}$$

43. answered

$$\frac{dy}{dx} = \frac{1}{\sqrt{1-u^2}}$$

for tan arc,  $\frac{1}{1+u^2}$

Maefung's theorem

$$u = \sin x = u_0 + \theta u_1 + \theta^2 u_2$$

$$\frac{d^2 u}{dx^2} = -\sin x$$

for  $x=0$

$$\frac{d^4 u}{dx^4} = \sin x$$

$$u = \sin x$$

$$u = 0 + 1x + 0 + 1 + 0 + 1$$

$$u = 0 + 1x - \frac{1}{6}x^3 + \frac{1}{120}x^5 + \dots$$

$$u = \cos x = 1 - \frac{1}{2}x^2 + \frac{1}{24}x^4 - \frac{1}{720}x^6 + \dots$$

+ etc for more functions

$$\frac{d^2 x}{dt^2} = (1-u^2)^{-3/2}$$

$$\frac{d^2 x}{dt^2} = -\frac{1}{2}(1-u^2)^{-3/2} - 2u \frac{du}{dt}$$

$$\frac{d^3 x}{dt^3} = u(1-u^2)^{-3/2}$$

$$\frac{d}{dt}(1-u^2) = -2u \frac{du}{dt}$$

$$\frac{du}{dx} = \frac{1}{\sin x} \quad \sin x = \sqrt{1-u^2}$$

$$\frac{dx}{du} = -\frac{1}{\sqrt{1-u^2}} \quad u = \sin x$$

$$\frac{du}{dx} = \frac{1}{\cos^2 x} \quad dx = \cos^2 x$$

$$\frac{dx}{du} = \frac{1}{\sin^2 x} = \frac{1}{1-u^2}$$

$$\frac{1-\cos^2 x}{1+\cos^2 x} = \tan^2 x \quad \frac{\cos^2 x}{1-\cos^2 x} = u^2$$

$$1 - \cos^2 x = \cos^2 x u^2 \quad \cos^2 x = 1 + u^2$$

$$\cos^2 x (u^2 + 1) = 1$$

$$\frac{dx}{du} = \frac{1}{1+u^2}$$

$$\arctan x = u \quad \frac{du}{dx} = -\frac{1}{1+u^2}$$



411. We say  $y$  is the form  
 in last lesson where  $y$  was  
 are now diff. of various  
 formulae which give out  
 is valuable called various  
 function  $u = \sin x$  when  
 we have  $u = \sin x$  various  
 is  $x = \arcsin u$   $x = \frac{1}{a} \arcsin au$   
 various circular functions  
 $x = \arcsin u$  or  $\sin(-1)u$  it  
 is various function  $y = \sin x$   
 $x$  is an where  $\sin u$  is  $u$   
 of  $u$  a function  $x$   $u = \sin x$   
 is  $\frac{du}{dx} = \cos x$   $\frac{dx}{du} = \frac{1}{\cos x}$

Make here in  $u^2 + u^2 = 1$   
 $\cos x = \sqrt{1 - \sin^2 x}$   $\sin x = u$   
 $\cos x = \sqrt{1 - u^2}$   $\frac{du}{dx} = \frac{1}{\sqrt{1 - u^2}}$

$d(\cos x) = -\sin x dx = -\sin x \frac{du}{dx}$   
 $\cos x = \sqrt{1 - u^2}$   $\frac{du}{dx} = \frac{1}{\sqrt{1 - u^2}}$

Kentucky - June 3 1886

Letter

to mention the nature  
of the element, which  
the law government to give  
(the name) 229.2. 1886  
the same 228.25. 80 was  
did he know, 228.27.  
20905 argument, 229.  
2. 1886. 1886. 2  
range 227. 17. 1886  
when then 229. 3. 1886  
although for different from  
one another, 1886. 1886.  
229. 5. - after to be different  
during the same 6. 2. 2.  
was much as, 1886. 1886.  
the force of the name is  
in ~~all the different~~  
~~all the different~~  
in ~~all the different~~  
in ~~all the different~~

39. Copy of my letter  
order to clear fully  
in 1870 I had about  
my own observation  
to thinking that such  
upon any track of the  
or can have equal or  
order by ever a person  
heated, 3000 ft.  
Keep I do not affirm  
it as your offspring  
it order to give you it is  
nothing (troublesome) it makes  
no matter, 13, while the  
essential nature is different  
discovered in the name,  
it is not serious, 40, but  
while the place in the interest  
from its former made essential  
it is proper to consider that  
having which show show  
it to us. Beware that -  
- there is no harm done  
that cannot be the whole matter



organ but that it is well  
it and you can do it, will  
try to do it for you. Takehold

enough with you to get  
it together, it has been in  
front but never get back

in position the problem comes  
from our gradually getting  
to phase, because they are

our point but then make  
part to see but it is not so in

part, Affected back,  
situation is in day

warm at night.

all the same 3/10

17. these names are possible

because names 22.

of that operation is

thing he is also the history

instructor of course

37. water has gained a length  
 $= t'$  1 the heat  $w'$

weight of heat  $w' t' = \text{gain}$   
 of water gain = loss  
 $\text{net} = w' t' \quad c = 10' t'$   
 net

Reynold has made a table  
 of the same, all chemical has  
 been 4.3, 4.4, 4.6, 4.8  
 then any kind water!

the sp. H.  $\frac{10}{9}$ , above 4.75  
 in 1.237 difference in a

equivalent? to increase with  
 heat, to measure the amount  
 heat as gas body above heat  
 and heat body, of body takes

measured & lower limit, takes  
 over heat, or from points  
 comparison body from limit  
 equivalent body from limit.

pieces of iron 3 show heat  
 not hot. As it increases  
 the force increases and it is





sp H of water = 1 specific heat

Lead

Lead	0.0372	2945	
Zinc	0.514	0.3352	735
Zinc	0.927	0.3321	403
Copper	0.0949	0.3340	396
Steel	0.1035	0.3404	370
Iron	0.1100	0.3315	339
Platinum	0.0314	0.3343	1234
S.	0.1880	0.2359	201
Hy.	0.330	0.3714	1266
A.V.	0.0149	0.3292	1443
Tellurium	0.0912	0.6501	802
Antimony	0.081	0.6762	940
Silver	0.0557	0.6694	1352
P.	0.385	1.3415	392
Gold	0.089	1.2500	1580
Cobalt	0.1498	0.4914	369
Carbon	0.25	0.1698	76.4
Bismuth	0.288	0.2271	887

+ Water at 40° weight to 90°  
 60°. By which we find that

My losses were above -

as much heat as 110° gave  
 then 44 at 40° + 110 100°  
 that 80° water

cooling 20° <sup>equal</sup> to heat to heat  
 40°. By which we find that  
 160° + 40° at 40° Round

at 45° that that 44° losses  
 cooling 115° is enough only  
 to heat water 50 and 44 at

40° + 40 at 160° Round  
 155° which increases

being from 100° to 150° for  
 heat. These electric heats

are not absolute. That is 40  
 electric heat of 40 is 10.

at weight  
 above  
 above  
 with

53. *artemisia* generally it is  
and, of that necessary to  
have kind of weight through  
much of world, in Europe  
with about = 0. degree Fahrenheit  
The frequency small quantity  
170 n

170 n  
 large n, 100  
 Submarine Tarp 200 n  
 Grand Tarp 100 n  
 170 n

The unit they bring it to 2:120  
 hang it in vacuum of air  
 pump de aume unit looking  
 like a chamber too. Why  
 does not get? Same as all  
 found before of 1.5. The first  
 more than 100 in a  
 minute. It has the shape

had given and, I had a  
 time to get to certain  
 work. II, take by measure  
 equal measure of the 100

1st take the at 100 and then  
the at 40 then longer 700  
But take the of the at 1000



with Hg in least dilution  
in beque first, decalatters  
it first, and about 3rd.  
water. He should say to  
Hg was very favorable to lead.

Singapore to lead.

I, Harker, say, why in one  
body more research than  
another? And, do all  
test at same level?  
Carbon source and, as  
lead? <sup>lead</sup> Thence, should  
only ratio of lead, ordinary  
lead. Then experiment  
first, attached to Borate  
Tollander. He had two black  
of Hg, Hg, about 1000  
It became very hot.  
even and he found that  
He looks with it that  
backed, then in carbon  
2. Relative heat of lead



that the gods call the many

things (names) correctly

which naturally are to them

by nature 1 25, 30, 300

what kind of (expressions)

225, 25, 00, 100, 1000  
226, 4, 10, 100, 1000

that. 100, 100, 100, 100, 100

some. 100, 100, 100, 100, 100

of 100, 100, 100, 100, 100

for 100, 100, 100, 100, 100

the 100, 100, 100, 100, 100

13, 100, 100, 100, 100

15, more 100, 100, 100, 100

these names which he says

belong to the 100, 100, 100, 100

to consider what a description

in these names he speaks of

17. The 100, 100, 100, 100, 100

the 100, 100, 100, 100, 100



29. 5. to get to 10 to  
the strong feeling (after this)  
225. 8. the next morning  
short.

~~Prunus, Jan. 24th~~  
~~Trifolium Jan. 18th~~  
50.

~~Ans. 20.~~

~~Takes four feet~~

~~+ x \frac{1}{y}~~

~~\frac{1}{x} = y~~

~~x proportional to d~~

~~to a!~~

Allen. Jan. 29<sup>th</sup> 1859.

225.15 The subject would be alone  
if when I do not receive anything  
the book of p. I would should

confer with the things of them  
about such a thing as sending  
I am, 225, 29 ✓

it will make (being made)  
and who of which other  
par scientific knowledge

at error type the same  
Fig. 224.9 also  $\pm 2$  name  
is a matter of 18. aga relative  
12. if the sudden is going  
to be beautiful, broken mean

by clear the down  
abandon down 15. the leaving  
I never so in the same  
of being not mean a mean

they are the part of mean  
mean 21. In your hand for  
given what I said a little  
before. I enter to a

common mean, 224, 28  
I know not how to relate to what you  
say. But it seems to me that  
you are wrong. I should

225.3, to go to the other

27. Body already above and  
inward flange is free  
girding reversed.

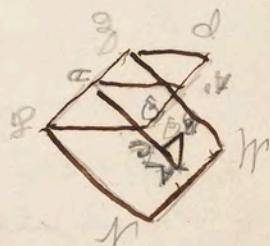
Page 117, foot-means  
take points  $\epsilon, \epsilon', \epsilon''$  near together  
forming together a perpendicular  
with AD diameter body face  
same time from A to B  
as take a distance AD.

Allen, June, 26th

223, 17, New ground there  
think that in this manner the  
regulator ~~with~~ the one here and  
do not among the barometers  
into as long as ~~the~~ is not a  
more low position than they are  
any where the  $\epsilon$  bars the ideal  
223, 24, restar is that.  
has been put,  $\epsilon$  bars east  
of it is more likely that it will  
with ~~the~~ ~~the~~ ~~the~~  
223, 29, ~~the~~ ~~the~~ ~~the~~  
stand,  $\epsilon$  bars  $\epsilon$  bars



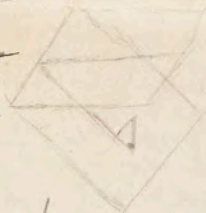
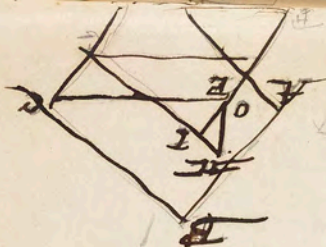
lines have a tendency  
 towards a free grain in  
 some other words



By a branch  
 produced line  
 A B vertical  
 described with

BE perpendicular to  $N^2$  and  
 into  $A^2$  in plane  $N^2$ ,  $O^2$ ,  $P^2$   
 segment  $BC$  is better

must lie in a plane perpendicular  
 to  $N^2$  and so must  $AB$   
 be perpendicular to  $P^2$ , the plane  
 that is perpendicular to a horizontal plane  
 and to  $N^2$  that is must be  
 a vertical plane



25. been transmitted through  
a given medium as 2nd

that of the same medium  
will transmit more of it

than a similar plate of any  
other medium (except if the

be more transmittent than the  
1st (Thermopore)).

Triple from 26th.

at Menabum of page 111

$v = a - gt$  is velocity at

any moment of time as

ascending velocity of descending

velocity given by gravity,

at space divided so over

in ascending  $\frac{1}{2}gt^2$  space

described in body descending

from force of gravity

when  $gt = 0$  body has come

to rest. If  $t$  is

We have diff. transcolours  
in diff. directions. At the  
heads on front of crystal -  
above translucent of light  
a head.

affection transcolours,  
with color, we have saturation  
of mass of head, we have  
double refraction, all kinds  
of optical head of crystal -  
with endochromat & chromogen

Alum. 225 Jan 26th  
222 - 25. transparent that  
is naturally most beautiful  
to each one

Thompson Jan 26th

Jan 3rd of that,  
then head has already



23. what comes, comes

1. Bodies cannot die

and, how did I know

(not only, but) transitory

order are transitory, but

degree of transiency, not

to transiency, even to be

part of and leave mind, that

step. Black-fish, the last

who walked, but little

Centenarian became a

3rd. All the <sup>best</sup> to take on

transiency of one's <sup>life</sup> and

of it, more than

through that glass, in

light, transiency through

these glass but good glass

light, the light photo is

But if you put another sheet

of blue glass, it goes through

without stopping. For

the blue glass has

absorbed what wanted

as an light

As all fine (authentic) / get  
no heat.

Order of transference 100 in 100 (Ante the heat)

Rock-salt, 92

Flint - glass 65

S.C.C.

63

Grown glass, 49

Water, 21

Alcohol 15

Alum 12

Water, 11

Red - 44

Yellow, 34

Blue - 33

Brown 26

White 53

Glass

Oil lamp, - 77,

Platina

Red  
hot - 57.

Copper at

7340 - 34,

2120 - 12

Rock salt & water

Illustrate 7nd part

of Law 2nd, order

of transference not order

of transference,

Rock salt seems to be a fine  
local crystalline - great heat  
flame heat as matter from

Transverse  
Allopathy

Excellent male pedic  
 about little feet.

Transverse

Melomysotus unicolor,  
 Melomysotus taken from the

ground also transverse at -

only as much light as a single  
 glass. Transverse of feet

transverse. Bodies not

transverse, spoke to feet,

Melomysotus, Allopathy

and Allopathy, day now

transverse little, Melomysotus

transverse feet & feet,

I. Different bodies are different

by transverse according

to force. Allopathy

greater the force

force of the force



clothing. In Alto the officers  
 are well paid and down from  
 the cliff. Large stone  
 mountains visible.

absorbing power  
of heat,

Steel

Spec. metal

Platinum

Zinc

Tin

Brass

Gold

Silver | very  
brilliant

Soil	adju.	lump	decar.	tail	sand	4000	2000
0.42.	0.34,	0.175	0.125				
0.34.	0.3.	0.145.	"				
0.39.	0.3,	0.17.	0.114,	0.105	0.1		
"	0.32,	0.19.	"				
"	0.32,	0.15.	"				
"	0.16	0.07,	0.06,	0.055,	0.05 (cu.)		
0.13.	"	0.045.	"	0.045,	0.04		
0.08.	0.035	0.025.	"		0.025		

19. and a return we have been  
for a long time coming from  
the mountains we were from long  
ago looking back, a view  
of the whole while there stood  
out, as it is that picture  
entirely the within man  
(Galler) at some distance  
you will certainly picture  
your picture and entire  
the picture.

Fraser Jan 25th

[illegible]

1. *Amphibian* - for long  
 time back but very common  
 today of Sylhet. 1 pair

[illegible]



~~34~~

3

Love - me

Love - me

Love - me

Love - me

1.  $\sin x$  is odd,  $-\sin x$  is even

odd/even

0.7:  $R7: \sin R$  is  $\sin$  ~~ROT~~

and  $\sin$  is odd

(from measurement)

angle  $R$  part to  $\sin$

angle  $R = \text{angle } 7 / \text{but little}$

difference)  $w = 8 \text{ in}$

$w = \sin(x + k)$

$\sin(x + k) = \sin x \cos k + \cos x \sin k$

$\times \quad w - u = \sin x \cos k$

+  $\cos x \sin k - \sin x$

part to  $\sin$  or  $k$  will

be zero nearly = 1

and  $k$  will approach

$\frac{w - u}{k} = \sin x \cos k + \cos x \sin k$

At  $u=0$   $z = \log u$  and

a above  $dy = du$

$dy \geq du = \frac{1}{du} \cdot du$  at  $u$

when  $\frac{1}{du} \cdot du = \frac{1}{u} \cdot du =$

is a marking of the graph

in which  $u$  is less  $\frac{1}{u} = 1$

$= \frac{1}{u} \cdot \frac{1}{u} = \frac{1}{u^2}$  is constant  $= m$

$du = M du$  - Euler

in function

after increment

$CB$  in triangle

$CD$   $BD$  mean

mean of same  $BD$

document of same - similar

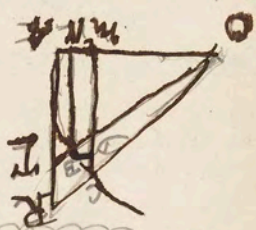
$CD$   $BD$   $CB = dy$  really

is part to limit it is  $dy$

$CB : CD :: CB : CD$

$CB : BD :: CB : BD$

similar  $1/R$  :  $dy$  :  $dy$  :  $dy$





$$D^2 u = K^2 \alpha^2 \quad D^3 u = K^3 \alpha^2$$

Measures shown in

$$u = \alpha^2 = u_0 + \beta w_0 + \gamma D^2 w_0$$

Orthogonal values from making

$$x = \alpha = 1 \quad Du_0 = K$$

$$D^2 u_0 = K^2 \alpha^2$$

$$K^2 x^2 + K^2 x^2 + K^3 x^3 + \beta$$

the measure from values

for  $x$  and find  $K$  of  $x = 1$

$$a/K = 1 + \frac{1}{1.2} + \frac{1}{1.23} + \frac{1}{1.234}$$

$$\text{sum is } K = 2.7182818282$$

in column & distinguish

between logarithms, which

gives the logarithm

$$a^{1/K} = 2 \quad a^{1/K} = 2$$

$$K = \log a \quad K = \log a$$

$$\frac{du}{dx} = \log a \quad \text{at } x = 1$$

13. Transcendental functions:  
 $\log_a x$   $\ln x$   $e^x$   $a^x = e^{x \ln a}$

$$111 + \frac{1}{1.2} + \frac{1}{1.2.3} + \dots$$

$S, \quad (2, 1) \quad S, \quad 1$

$$\left( \frac{1}{2} \right) \left( \frac{1}{3} \right) \left( \frac{1}{4} \right)$$

$$\begin{pmatrix} 1 & 1 \\ 1 & 1 \end{pmatrix} \begin{pmatrix} 1 \\ 1 \end{pmatrix} = \begin{pmatrix} 2 \\ 2 \end{pmatrix}$$

$2 + 8016$   
 $17557$   
 $2756$   
 $250$   
 $21$   
 $21$

$\frac{dx}{dy} = \frac{x^2 + K_1 x + K_2}{x}$

$$L = \frac{d}{dx} = K_1 x^2 + K_2 x + K_3$$

$$u = \frac{d}{dx} \cdot K_1 x^2$$

$$u = K_1 x^2 + K_2 x + K_3$$





[illegible]

as a reflection from the sun

due to light from reflection

angle of reflection equal to angle of

incidence. Calculate angle from

normal, of body from observation

surface. Part of heat so lost

to all directions called diffuse

light as regards reflection. All

good reflections of light are

from smooth polished surfaces

great reflection - Silver leaf.

~~Aluminum~~

All heat must be ~~also~~ reflected

or absorbed. 1st law. Absorption

necessarily as reflection

Allen, Monday Jan. 24th.

221, 18, 21, 22, 20, 22, 22

223, 5, hand frame, paper

below, 18, 22, 21, 21

and will be after the manner of a

mirror, 221, 18, and other points

the source as the clouds

1. Reproduction is a continuous process.  
 2. Reproduction is a biological process.  
 3. Reproduction is a social process.  
 4. Reproduction is a psychological process.  
 5. Reproduction is a physiological process.  
 6. Reproduction is a chemical process.  
 7. Reproduction is a physical process.  
 8. Reproduction is a metaphysical process.  
 9. Reproduction is a transcendental process.  
 10. Reproduction is a supernatural process.

1. Reproduction is a continuous process.  
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 4. Reproduction is a psychological process.  
 5. Reproduction is a physiological process.  
 6. Reproduction is a chemical process.  
 7. Reproduction is a physical process.  
 8. Reproduction is a metaphysical process.  
 9. Reproduction is a transcendental process.  
 10. Reproduction is a supernatural process.



it seems. Each particle is  
free. But particles are first  
and disappear when made -  
ready to. Growing plant is  
very freely divided, from father,  
blow rather as well as dust -  
black. Good with the particles  
strongly, particles from others  
fairly considerable in contact  
with the body, from the things  
with the dirt, but a  
cloud about particles to cloud  
and the air. Particles of  
air are. This is called free  
them. In H. being made it only  
a particle. The particles form  
of ground. The particles form  
part when the particles and put  
themselves on the ground.  
at night the particles at dawn  
even at 3.20. The particles  
were 3.20. For under the

'You will become acquainted with  
water. The cream of water does  
the same, but water keeps  
water. From now on however  
more than these things are  
the quantity of water can  
be determined on land.  
Get to know it in your  
the morning first can't hold  
it. This is something to long-  
ing. We are not in before  
of water from distance of our  
not to follow. The day is distant  
again because of the distance  
has you down to a tank, when  
that of the air around. Do  
first dip into water then on  
ground then on water then on  
water. (Water) often it will  
be first on water then on  
ground then on water then on  
water. During day over the  
ground get more heat than  
the water. During night  
the water is more heat than  
the ground.

with Penetration. See.

from Jan. 24th.

These figures that related

to the subject. See the course

of the river. But I don't

in showing the form on the

shore. Wherever influence

in reflecting the light from

the surface. There is, 1st,

the surface of the water. But

to the surface of the water.

of the surface of the water.

of the surface of the water.

of the surface of the water.

of the surface of the water.

of the surface of the water.

of the surface of the water.

of the surface of the water.

of the surface of the water.

of the surface of the water.

of the surface of the water.

of the surface of the water.



5. of the author and his agent  
and with which (unhappily)  
it is natural, therefore, to feel  
the author and his agent  
there be some advantage 220  
8. however is that there 2

12. which is his handwriting  
appearing with him which  
is very poor but that it is hand

his handwriting and any in the  
way it is natural to hear  
advantage, 220 or 220

of which, 220 or 220  
advantage, 220 or 220  
advantage, 220 or 220

advantage, 220 or 220  
advantage, 220 or 220  
advantage, 220 or 220

advantage, 220 or 220  
advantage, 220 or 220  
advantage, 220 or 220

advantage, 220 or 220  
advantage, 220 or 220  
advantage, 220 or 220

advantage, 220 or 220  
advantage, 220 or 220  
advantage, 220 or 220

advantage, 220 or 220  
advantage, 220 or 220  
advantage, 220 or 220

Allen, Jan. 22nd

Since 18 Page 219 Part 2

think that you don't think as few

days that our thing is not for

all of it. for not in mind the

the same good thing would be.

15, not that each of expecting things

into each. 17. Peppercorn agree

with over each 20. not charged

with a claim by one investigation

but having themselves in reference

to the 2 \$1. But are their own

then in the same way. or

(Peppercorn bears to 20, 1) are

not done the operation (mean)

a phrase seems repeating

things. 220. 1. only we need to

that to cut each thing according

to the nature (219. 30. in the

instrument. 219. 30. in the

hand to develop. 220. 21)

Problem (in Comm. Mechanism)

Furthermore problem that you  
but no do as to give the velocity

$v$  then  $f = mv$ . hence

moved  $m+n$  velocity due

to this denoted by  $V = \overline{mv}$

for  $V = \frac{F}{M}$ . this is of quantity  $m+n$

don't act but quantity gives

$q' = \overline{m-n}$  if  $v = q$ .

then  $v' = m-n$  ft. this

gives action at distance

term (that is quantity of the term)

therefore velocity is difference

and of that system cannot

be that vel. is 0, then

$$v/a \quad V - v' = 0 = \overline{mv} - (m-n)q$$

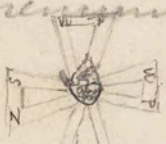
$$mv = (m-n)q \quad v = q$$

$$t = \overline{mv} = \overline{(m-n)q} = \overline{(m-n)q} = \overline{mv}$$



Tellurium  
 Manganese  
 Vanadium  
 Fluorine

Fe ✓ 64 ✓  
 Zn ✓ 25 ✓  
 V ✓ 61 ✓  
 Al ✓ 60 ✓



atque flammans

v' =  
 $v' = 2u - v$  this reduces to  
 $w - v, \quad v + 2(w - v) = v'$   
 next body has velocity  $v$  relative  
 to  $w' = m - w$   
 in the 1st equation in the first  
 $u' = 2u - u$  & this reduces  
 $u - 2(u - u) = u'$   
 same direction  
 relative bodies moving in

But these are really problems  
 in opto. abstract,

# Principal Acids & Bases

Acids	Atom	Eqivts
Nitric Acid	$\text{NO}_3$	54
Sulphurous Acid	$\text{SO}_2$	32
Sulphuric	$\text{SO}_3$	40
Sulphohydric	$\text{HS}$	17
Phosphorous	$\text{PO}$	56
Phosphoric	$\text{PO}_3$	72
Chloric	$\text{ClO}_5$	76
Chlorohydric	$\text{HCl}$	88
Sodic	$\text{Na}$	166
Sodichloric	$\text{NaCl}$	124
Bromic	$\text{BrO}_3$	128
Bromohydric	$\text{HBr}$	79
Iodohydric	$\text{HI}$	20
Carbonic	$\text{CO}_2$	22
Cyanohydric	$\text{HCN}$	27
Boracic	$\text{BO}_3$	30
Silicic	$\text{SiO}_3$	40
Antimonous	$\text{SbO}_3$	161
Antimonic	$\text{SbO}_5$	169
Arsenious	$\text{AsO}_3$	99
Arsenic	$\text{AsO}_5$	115
Bases		
Potassa		
Soda		
Lithia		
Ammonia		
Iron		
Magnesia		
Baryta		
Strontia		
Alumina		
Silicina		
Zinc		
Thoria		
Protosulphate of Iron		

Scorpioides "

Protos of manganese

Scorpioides "

Scorpioides

Protoside of zinc

" " lead

" " Copper

Scorpioides of bismuth

Protoside of mercury

Scorpioides

Protoside of silver

Protoside of antimony

Protoside of chlorine

Protoside of phosphorus

Scorpioides " "

Scorpioides of iron

Protoside of iron

Protoside of iron

Protoside of iron

Protoside of iron

Protoside of iron

Protoside of iron

Protoside of iron

Protoside of iron

Protoside of iron

Protoside of iron

Protoside of iron

Protoside of iron

Protoside of iron

Protoside of iron

Protoside of iron



Jaekem, Trape Jan. 20th, 1859.

6.19. Decimus we shall speak  
 ita and that, adverb. 20.  
 Clades fall. 20. Baumelle  
 forum civium Piepe often  
 deserving citizen. 21. honors  
 (gratia) Duke of Leinster honor.  
 Illagundum near 22. added  
 to give emphasis. 22. tentation  
 is attempted. La tentation are  
 held by thick (ratione) digits the  
 position. sublimis a. Reserve.  
 24. Let Connelly have to be called  
 to their assistance. But however  
 machine to fit out have to  
 fit up. furnish themselves  
 in such way. Victorian  
 vicification. middle of 24.  
 quans rebebae (quama) morsus  
 put open as they had the liberty  
 intermission temporary loss.

$$\frac{m-n}{m+n} g = \frac{g}{16} = 24.14 \text{ in}$$

$$g = 12.07 \text{ ft}^2$$

Time	Space (inches)
Seconds	$g = 6.632$ $g = 12.46$ $g = 24.14$
1	3.166 6.23 12.07
2	12.664 24.92 48.28
3	28.494 56.07 (108.63)
4	50.636 (99.68) (193.12)

parentheses shows his instrument  
 don't go that far.

There is wood scale graduated  
 in inches platform put opposite  
 zero. then you have instrument  
 set to start itself clock work  
 starts platform gives tick  
 to show platform is going down  
 it drops weight drops on plat-  
 form below with a noise  
 on the second hand is a small  
 a wheel spiral forms end  
 of lever weights the small  
 at the minute exactly end of

Trape. Jan. 20th, 1859.

## Mechanics.

Instrument to show  $g = \frac{v^2}{r} = \frac{gt^2}{2}$   
 Principle belongs to Atwood,  
 we can depend on gravity for  
 experiment. Atwood makes use  
 of formula  $\frac{m-n}{m+n}$ . So delicate  
 an instrument if you give one  
 weight one foot more of silk  
 string. Each of weights are equal  
 each 15 units of weight here is  
 another weight  $\frac{1}{30}$  of either  
 weight ( $\frac{1}{2}$  unit of weight plat-  
 form holds body up but plat-  
 form down body comes down  
 Atwood's machine

$$\text{acc. force } \frac{m-n}{m+n} g = \frac{g}{6.1} = \frac{386.28 \text{ in}}{6.1}$$

$$m = 15.5 \quad = 6.332 \text{ in}$$

$$n = 15 \quad g = \frac{gt^2}{2} = 3.166 \text{ ft}^2$$

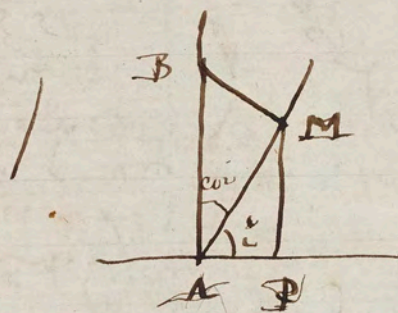
$$m = 16 \quad \frac{m-n}{m+n} g = \frac{g}{3.1} = 12.46 \text{ in}$$

$$n = 15 \quad g = 6.23 \text{ ft}^2 \quad m = 17 \quad n = 15$$

over 100 platforms good ones  
 verified three different formulas  
 this verifies  $A = gt^2$   
 but we can verify  $g = \frac{v^2}{2}$   
 Suppose that at any moment  
 make v constant goes next  
 second 2v as  $g = 3.166$ .  
 further next second with  
 v constant 6.332 12.07  
 12.664 6.23 3.166 24.14  
 25.328 12.46 9.498 36.21  
 37.992 18.69

Recalls this Start System  
 moves uniformly as weights  
 are even, weights made long  
 for we have a ring platform  
 below which catches weight  
 off. This is way to make motion  
 uniform.  
 should also uniformly retard  
 motion





$$AB = 4h$$

$$AP = AM \cos i$$

$$AM = AB \sin i$$

$$\angle BAP = 90^\circ - i \quad \cos(90^\circ - i) = \sin i$$

$$\therefore AP = 4h \sin i \cos i$$

Construction for maximum  
Range



Th. Kuhn, Jan. 21. 04.

~~dark-colored~~ = red of m. n. =

$-v = u$  and  $u + v$

$w = \text{common bed, after contact}$   
of clay had been worn, & above

$$m \log \frac{1}{1 - \frac{1}{m}}$$
$$n!m! = (n+m)!$$
$$(n+m)z + n- = n$$
$$n + m = 1$$

$m - n \neq m - m$

$$m - m' = m$$

substitute value of  $w$ .

$$(a-a) \cdot \frac{1}{1} = 1$$
$$u = \frac{m + n}{m + n} \quad (u = 0)$$



Horizontal Runway  
 $R = 2L$   $t = 10$  seconds

speed of ... second ...  
 $v = 9$

$v = 59$   $g = 32$   $v = 160$  ft/sec

second  $v = \sqrt{2}L$   $k = \frac{1}{2}$

$k = 400$  ft  $R = 800$  ft

$500 \pm 250$   $(6\frac{2}{3})$

$\frac{400}{3} = \frac{3}{5}$

$\frac{60}{5}$   
 $\frac{60}{6}$   
 $10$

a mile in  $66$  sec

$$u = e + e^{-x} + 2 \cos x$$

Cham 27.60

Great  
Crawling

Wm. L. Camp

James Clark

Hand B. 9. 17. 17. 17.

Stamps  
of

500

W. H. K. L.  
C. L. K. L.  
M. L. K. L.  
P. L. K. L.  
B. L. K. L.  
R. L. K. L.

William  
Hassell  
Hunt  
R. H. H.  
A. H. H.  
B. H. H.



Jefferson College Medical

Simon Pancoast

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Paracet

pp  
Lancaster

Bach

Meigs

Singherson

Carross

Ticknor



